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Welcome to Netscape Netshare and the Web Publisher applet. Netscape Communications Corporation is the premier provider of open software that lets people and companies exchange information and conduct commerce over enterprise networks and the Internet.

This *User's Guide* documents Netscape Netshare, which allows individuals to have their own home sites on a Netscape Enterprise Server, and Netscape Web Publisher, which provides web publishing features for server clients.

Computer System Requirements

Netscape Web Publisher needs specific software and hardware.

Before you can install the Web Publisher control panel, you must be using a web browser that supports frames, Java, and JavaScript:

- Netscape Navigator 4.5 or 4.61 and higher
- Microsoft Internet Explorer 4.0 or higher

In addition, your computer must use one of these operating systems:

- For the Windows platform, use one of the following:
 - Windows 95
 - Windows NT version 4.0 running Service Pack 3
- For the Macintosh PowerPC platform, use System 7.0 or later.
- For the Unix platform, use one of the following:
 - Sun Solaris 2.6 or later
 - Hewlett-Packard HPUX 11.0 or later

- IBM AIX 4.2.1 or later
- Compaq Tru64 UNIX 4.0d or later

Contacting Technical Support

For product-specific Technical Support assistance, please see the Product Support Page for Netscape Enterprise Server at <http://help.netscape.com/products/server/enterprise/index.html>.

For general Technical Support assistance, please see the Netscape Technical Support Page at <http://help.netscape.com>.

Using Netshare

Netscape Enterprise Server clients can use Netscape Netshare to collaborate on projects by directly accessing, editing, and managing files on remote servers. Netshare, through its many services, provides sophisticated features for server clients, such as file management, editing and publishing, and access to Web Publisher features such as search and access control.

Netscape Netshare provides you with a personal home page for storing, sharing, and managing their server documents. From your home page, you can also obtain information about how you are defined in the server's user directory, such as your name, password, and telephone extension.

This chapter discusses these topics:

- Using Your Netshare
- Customizing Your Netshare Home Page

Using Your Netshare

As a Netshare end user, you have your own personal home page that provides easy access to Netscape Enterprise Server user services, such as Web Publisher and search. You also have one or more personal Netshare home directories

that you can use for publishing documents that you want to store on the server. You can direct other users to this directory as a central repository of your server documents.

This section discusses these topics:

- Displaying Your Home Page
- Controlling Access to Your Home Page
- Linking to Other Services

Displaying Your Home Page

To display your default Netshare home page, type in this URL:

```
http://<yourServer>/netshare/<yourUserID>
```

For example, for the user JDoe on the server Markets, you'd enter this URL:

```
http://Markets/netshare/JDoe
```

Another method for displaying your home page is to list of all Netshare users on your server by typing this URL and clicking on the link listed for your Netshare directory:

```
http://<yourServer>/netshare
```

Note It's a good idea to create a bookmark to your Netshare home page so you don't have to type the URL again each time you want to locate it.

Controlling Access to Your Home Page

When your server administrator creates a Netshare home directory for your user ID, you are assigned as its owner and are the only one who can write to the directory. Other users can read your files, but cannot make any changes to them unless you explicitly provide such access permissions.

This means that if you access another user's Netshare folder (`http://<yourServer>/netshare`), you can look at the contents of their home directory, but you cannot modify their files or folders unless they have explicitly set the access permissions to permit this.

If you are part of a group for which a Netshare has been created, you and all other members of the group have permission to modify the files and folders in the group's Netshare directory. However, only the user designated as the owner by the server administrator can modify the access control rules for the group's directory.

Linking to Other Services

Your default Netshare home page displays a set of links that allow you to access many server functions, most of which operate on your home directory and the files it contains.

Publishing:

- **Web Publisher**—You can have direct access to the files and folders in your home directory.
- **Access control**—You can restrict access to your home directory.
- **Search**—You can search on any collection set up for your server.
- **User information**—You can review and modify your user information.
- **Help**—You can look at Netshare online help.

Some functions open a new browser window, others use the right frame to display their information. If you want to return to the original content of your right frame, click the Reload button in your browser.

Web Publisher

When you click this link, the Web Publisher applet starts up. Because you launch it from your Netshare home page, Web Publisher displays all your Netshare files and folders. Initially, the list includes the default set of HTML files that are used to construct your home page, but you can add other files and folders as your needs dictate.

Access Control

When you click this link, the server displays the access control interface. This allows you to set the access control for the file currently displayed in the right frame.

Search

When you click this link, the server's search function starts up. This allows you to search on any collection (database of searchable data) that has been created for your server. This includes the default web publishing collection, which allows you to access the complete set of server files and folders for which you have access permission.

User Info

When you click this link, the server displays a predefined subset of the information stored on the server for your user ID. Typically, this includes your name, password, and extension. You can use this form to change your server password.

User's Guide

When you click this link, the online help system is displayed.

Customizing Your Netshare Home Page

By default, your Netshare home page displays the `netshare.html` file in the right frame. Initially this HTML file contains mostly text and a few sample links, but you or your server administrator can revise this file as desired to contain other text, graphics, links, and other HTML elements.

This file is the starting point for a your workspace on the remote server and is what other users first see when they access your home page. As the owner of the home page, you or your server administrator may want to provide some explanation of what other files, folders, and services are available through the home page and display some navigational links to route other users through the site.

This is the default set of files that is installed in a Netshare home directory:

- `netshare.html` - The default text that appears in the right frame.
- `banner.html` - The banner across the top.
- `home.html` - The frameset itself.
- `menu.html` - The set of links in the left frame.
- `test1.html` - A sample file.
- `test2.html` - A sample file.

About Web Server Publishing

Netscape Web Publisher is a Java applet that runs on your local desktop and interacts with files managed by a Netscape Enterprise Server. With Web Publisher, you can directly access, edit, and manage documents stored on remote servers. Members of workgroups can seamlessly collaborate on project content from their desktops. Web Publisher allows you to publish a document to the appropriate web server with the click of a button, without using `ftp` commands or other complex interfaces.

This chapter introduces these features of Web Publisher and provides an overview of web server publishing:

- File Management
- Editing and Publishing
- Search
- Controlling Access

File Management

Netscape Web Publisher allows you to manage remote server files and folders. You have easy access to the server's files and folders through a hierarchical list in the Web Publisher file management window. You can copy, move, rename, and delete files and directories. You can also download server files to your local system and upload your local files to the server.

Each file and folder on the server has a set of properties that describe information about a file such as its filename, owner, lock status, size, and creation date, and this information is updated whenever the file is edited or added to the server.

You can perform a search on any of these file properties. For example, you can search for all files that belong to a certain author, for all the locked files, or for any file with a particular string in the title field.

Editing and Publishing

With Web Publisher, you can edit server files in a variety of different formats, automatically launching the application associated with the file, such as Netscape Composer for HTML files, Adobe Acrobat for PDF files, and Microsoft Excel for spreadsheet files.

You can configure Web Publisher to associate an editor program with a specific file type. For example, if you edit an HTML file or an ASCII file, Web Publisher defaults to opening the file in a Netscape HTML editor. If you edit a non-HTML file, Web Publisher launches the application associated with that file type. For example, if Microsoft Excel is associated with files that use the `.xls` extension, when you edit such files, Microsoft Excel is launched and you can work in Excel, saving the file as usual when you are done making changes.

When you edit a server file, Web Publisher places a small pen icon next to it in the Web Publisher applet window. During the edit, the file is in an "edit state," which locks it so that other users cannot write to it, although they can still browse it. To make your new changes publicly available to other users on the server, you must publish the edited file back to the server. This updates the server file and makes it available to other users again.

As part of the process of publishing an edited file back to the web server, Web Publisher performs these tasks:

- unlocks the file
- updates the server file, making the revised file available for other users
- updates the file's properties, such as a new modification date
- updates the file's properties and content for searching

Search

With Netscape Web Publisher, you can search through the contents and file properties of documents on a remote server. For example, you can search for documents created after a certain date or for documents that contain the word *web*.

For more information about the Web Publisher search function, see Chapter 6, "Using Search."

Controlling Access

Netscape Web Publisher lets you control access to your Web Publisher files and folders. You can permit different users to have different types of access to your files and folders (for example, allowing one user only to read files, while another user can write or delete your files). You can define which documents an agent can monitor and you can restrict which documents you can search through.

For more information about setting access permissions, see Chapter 7, "Controlling Access."

Installing and Configuring

Netscape Web Publisher is a Java applet that provides convenient client access to web server publishing. The default installation of Netscape Enterprise server includes the Web Publisher applet with a home page.

This chapter discusses some basic information about installing and configuring Web Publisher and describes issues specific to the version of Netscape Navigator you are using. The chapter includes these sections:

- The Web Publisher Home Page
- The Web Publisher console window
- Configuring Web Publisher
- User Access Requirements
- For Communicator and Composer Users
- For Internet Explorer Users

There is an optional plug-in for users of the Netscape Composer component of Netscape Communicator that enhances Composer's editing and publishing capabilities to provide more seamless client access to server documents and folders.

The Web Publisher Home Page

The Web Publisher home page is included as part of the default Enterprise Server installation. From this page, you can launch Web Publisher, define the web publishing document directory, download the plug-ins appropriate for your system, and access online help.

To locate the Web Publisher home page, type in this URL:

```
http://yourServer/publisher
```

This displays the Web Publisher home page, which has a Start Web Publisher button as well as useful links: one for downloading the plug-in and several for accessing the online help system. After installing the plug-in for your system, you can start Web Publisher from this page.

When you launch Web Publisher, you need to identify which document directory you want it to use. By default, Web Publisher has the primary document directory as its scope. You can change this to point at a different folder on your server by choosing one from the drop-down list or by directly typing in the folder you want to use. Whichever folder you enter becomes added to the drop-down list for your future convenience. The list can hold 10 folders. If you add additional folders, the first ones you entered are deleted from the list.

The Web Publisher console window

When you start up Web Publisher, a special Web Publisher browser window appears on your screen, as shown in Figure 3.1, that provides a Java environment for Web Publisher. This browser window must remain open in order for you to be able to run Web Publisher.

Figure 3.1 The Web Publisher console window



Configuring Web Publisher

There are two configuration files that determine how Web Publisher works. One file, `editor.txt`, associates file types with applications that are to be launched when you open a file for editing. The other, `nswppref.txt`, stores information about your Web Publisher session such as your user name, window size, user preferences, and files being edited. These files are stored locally in your system in the folder that contains your Netscape Navigator program. For example, for a Windows user it might be in `C:\Program Files\Netscape\Navigator`. Typically, users do not need to modify these files. There are, however, some circumstances when you may want to make changes to these files.

This section discusses these topics:

- The Editor Preferences File
- The Web Publisher Preferences File

The Editor Preferences File

Netscape Web Publisher allows you to associate a particular application with a given file type. When you edit a file, Web Publisher launches its associated application, which could be MS Word, MW Excel, Netscape Navigator's HTML Editor, or some other program.

The `editor.txt` file identifies which programs Web Publisher should use to edit files in different formats. By default there are entries in the editor preferences file to open HTML files in the editor part of your Netscape program, but you can add as many as you need to edit each of the different file types you work with. For example, if you have MS Word documents or GIF graphic files, you can edit them in MS Word or PaintShop Pro, respectively.

You can edit the file by using the Editors popup dialog box available through the Preferences command on the Edit menu. This command displays a dialog box listing your editor preferences, which initially includes entries for HTML files with the `html` and `htm` extensions.

To add other entries, follow these steps:

1. Click the Add New button. The Set Editor Program dialog box is displayed.
2. Enter the file extension for the given file type, either without or without the preceding period. That is, you could type `doc` or `.doc` to define an editor for word processing documents.
3. Enter the exact line of code to launch the editor. In many cases this will simply be the full pathname for the executable program file. For example:

```
C:\msoffice\winword\winword.exe
```

In other cases, you may need to enter a command that includes arguments or options. You can use the `%f` symbolic name to insert the file's name into the command line, or `%u` to include the server URL.

4. Click the option "Use Communicator to edit directly on the server" if you do not want to create a temporary copy of the edited file on your local system during the editing process.

The Web Publisher Preferences File

The `nswppref.txt` file defines your Web Publisher session. There are many program details listed in the file that define internal configurations, such as the size of applet window, and there are others you access from the Preferences command on the Edit menu. Normally you do not need to make any modifications to this file.

There is one situation in which you might need to manually change to this file. This occurs when an unexpected file is listed in the Publish All Edited Files dialog box. This might happen, which may happen when a user manually unlocks an “in edit” file through the Properties page.

Generally executing the Publish command takes the file out of the “in edit” state and restores to the server. For version controlled files, however, this results in an additional version being incremented in your version history. If you wish to avoid this, you can manually modify your Web Publisher preferences file to remove the “in edit” flag from this file.

To do this, use your local text editor to edit the file. The file will have one or more lines at the end that read like this:

```
EDITED: http://yourServer/TempDir/myFile.html
```

These entries indicate which files are still being edited, that is, they have not yet been published back to the server. If you need to manually release a file from the “in edit” state, you simply delete the offending line. Save the file and return to the Web Publisher applet to see that the file no longer appears as an edited file.

User Access Requirements

In order to use Web Publisher, you must be defined as a valid user with basic read or read-write permissions for Netscape Enterprise Server. See your server administrator if you have any questions about your user privileges.

The default access control for Enterprise Server is to permit any defined user to have write privileges to the server's files. Your server administrator can adjust this for a specific server. You can also adjust this for individual files and folders that you own by using Web Publisher's access control function. See Chapter 7, “Controlling Access,” for more information.

For Communicator and Composer Users

This section applies to Web Publisher users who are using Netscape Communicator and its Composer component. The section discusses these topics:

- Enabling Java
- Installing the Composer Plug-in
- Java Security Certificates
- Page Services Menu Command
- Using a Locally Installed Applet

Enabling Java

Netscape Web Publisher requires that you have Java enabled in your browser in order for the applet to run. To enable Java in the Netscape Navigator component of Netscape Communicator, do the following:

1. From the Edit menu, choose Preferences.
2. Select the Advanced set of preferences.
3. Click Enable Java.

Installing the Composer Plug-in

With the Composer plug-in, you can seamlessly edit and publish files on remote web servers. This is an optional plug-in that adds special web publishing capabilities to the editing and publishing functions. It also adds the Web Publisher Lock and Unlock menu commands to the Tools menu, which allows Composer users to lock and unlock remote files. In this way, you can perform web server publishing directly from the Communicator software on your local desktop.

The instructions listed here for installing the Composer plug-in assume that your Netscape Communicator installation is in the default directory. For example, on a typical Windows system, the default document directory would be:

```
C:\Program Files\Netscape\Navigator
```

If you are using a different directory, be sure to adjust the paths as you install the plug-in.

To install the Composer plug-in, go to the Web Publisher home page, as described in “The Web Publisher Home Page,” and follow the instructions there to download the plug-in. When you have installed the plug-in, you must restart Communicator to use the web publishing features in Composer.

Java Security Certificates

Netscape Web Publisher is a signed applet that requires users to grant access through a Java Security certificate. The first time you attempt a Web Publisher operation that accesses local files, a series of windows are displayed that allow you grant or deny access to the applet.

If you check the box to “Remember this decision each time I start Communicator,” the Java security checking is handled afterwards in the background for you.

Page Services Menu Command

If you are browsing a server document in the Navigator component of Netscape Communicator, you can quickly access the file’s web publishing information in the Web Publisher Services page by using the page services menu command.

To do this, follow these steps:

1. Open a server document in the Netscape Navigator browser window.
2. From the View menu, choose the page services command.

The Web Publisher Services form is displayed, providing the Properties page for the document you are browsing. You can use any of these web publishing features:

- search
- access control
- online help
- the Web Publisher applet (this launches it if you haven’t already)

Using a Locally Installed Applet

You can set your server to use a copy of the Web Publisher applet that has been installed on your local machine. This can significantly improve the applet's performance.

To do this, follow these steps:

1. Go to the Web Publisher home page, at <http://<server>/publisher>.
2. In the center section, entitled "Netscape Communicator Users," click the link for the Smart Update to download a local version of the applet.
3. On the Smart Update page, click the "Local Web Publisher" link at the bottom of the page. This installs a local version of the applet.
4. To set this version to be the default applet, click the "Use Local Version" button.

For Internet Explorer Users

This section applies to those Web Publisher users who are using Microsoft Internet Explorer. The section discusses these topics:

- Enabling Java
- Java Security Certificates

Enabling Java

Netscape Web Publisher requires that you have Java enabled in your browser in order for the applet to run. To enable Java in Internet Explorer, do the following:

1. From the View menu, choose Internet Options.
2. Select the Advanced tab.

3. Click JIT Compiler Enabled to allow Internet Explorer to create all Java applets automatically by using its internal compiler.

Java Security Certificates

Netscape Web Publisher is a signed applet that requires users to grant access through a Java Security certificate. The first time you attempt a Web Publisher operation that accesses local files, a series of pages are displayed that allow you grant or deny access to the applet.

Web Publisher QuickStart

Netscape Web Publisher lets server clients directly access, edit, and manage files and folders on remote servers. In this way, multiple users can collaborate on shared workgroup web server documents from their desktops.

This chapter focuses on a few of the most common tasks to get you up and running as quickly as possible. Other chapters describe the Web Publisher services and menu commands in detail. This chapter discusses these topics:

- Using the Web Publisher Interface
- Editing a Server File
- Adding a New File to the Server
- Viewing a File's Information

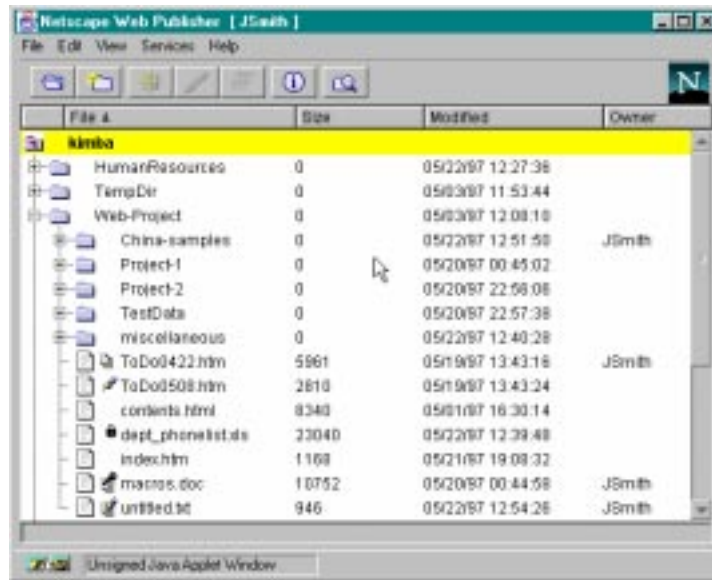
The search and access control components of Web Publisher are discussed in other chapters. For search, see Chapter 6, “Using Search.” For access control, see Chapter 7, “Controlling Access.”

Note Web Publisher provides many internal and automatic features such as file reindexing and state checking. If you use your local file management tools to manipulate files and folders in the document directory defined for Web Publisher, you may get inconsistent and unexpected results.

Using the Web Publisher Interface

When you start up Web Publisher, you see the server documents and folders displayed in a window that hierarchically lists all files and folders, as shown in Figure 4.1. There are several icons that provide information about a given file or folder.

Figure 4.1 The Web Publisher window











Web Publisher Icons

As files undergo different operations, Web Publisher displays different icons in the Web Publisher window. Version control is indicated by a small document stack. Files that you have edited but haven't yet published have a distinctive

pen icon. Locked files also have special icons that differ depending on whether you or another user is the lock owner. Table 4.1 shows the various possible combinations.

Table 4.1 File icons for different operations

Operation	Without version control	With version control
(no operation)		
edited by you		
locked by you		
locked by another user		

When a file that is being edited is published back to the server, the pen icon disappears. Likewise, when files that have been locked are unlocked, the lock icon or the circle icon disappears.

Sorting the Listed Files and Folders

You can choose to sort the files and folders in different ascending or descending sort sequences: by name, modification date, or size.

To sort the files, click the heading for the column you want to sort by. Alternately, you can go to the View menu and choose the Sort command, selecting the appropriate sort sequence from the submenu (name, date, or size).

Keyboard Shortcuts

Web Publisher uses many standard keyboard actions:

- If you double-click a file, it opens in a web browser window.
- If you double-click a folder, it opens (or closes if already open).

- If you click the small plus or minus sign in the list next to a folder, it opens (or closes if already open).
- You can select a file or folder and move it to a new location by using the drag-and-drop method.
- You can select a file or folder and make a copy of it in a new location by pressing the Control key while you use the drag-and-drop method.
- You may sometimes need to move the cursor on the screen to refresh an hourglass cursor, updating it to an arrow cursor once more.

Toolbar Shortcuts

At the top of the Web Publisher file management window, the toolbar presents seven buttons as shortcuts for the most commonly used Web Publisher commands, as shown in Figure 4.2. The complete set of menu commands are described in Chapter 5, “Services and Menus.”

Figure 4.2 The toolbar



You can select a file or folder and use a toolbar button to execute a Web Publisher command. From left, the icons are:

- Open folder: opens the selected folder.
- New folder: creates a new folder within the selected directory.
- Browse file: opens the selected file in a web browser window.
- Edit file: opens the selected file in an editor window.
- Publish file: allows you to publish an edited file back to the server.
- Information: opens the Web Publisher Services page, displaying information about the selected file or folder.
- Search: launches the Web Publisher search interface.

Editing a Server File

This section describes how to edit a file stored on a remote web server and publish the modified file back to the server so that it is available for other users. When you edit a file, it becomes locked to other users until you have published it.

With Web Publisher, you can edit any unlocked file that you have read and write permission for. Members of a workgroup often need to be able to make changes to shared files on a remote server as they collaborate on a project.

To edit a file:

1. Select an unlocked file.
2. Click the Edit toolbar button.
3. Click OK to launch the file's editor application and begin editing the file.

Depending on how your editor.txt file is set up, this command may launch Netscape Navigator's HTML editor, Adobe Acrobat, Microsoft Word or Excel, a simple text editor, or another application that you have associated with this particular file's format. See Chapter 3, "Installing and Configuring" for more information about setting up file editors.

4. When you have made your changes, save the file in the editor application. If you are using the HTML editor in Netscape Navigator 3.01, do *not* use its Publish command.

The newly edited file is not available on the server for other users until you publish it. To publish an edited file to the server:

1. Select the edited file.
2. From the File menu, choose the Publish an Edited File command. The Publish File dialog box appears.



3. Click OK to publish the file.

The edited file is again available on the server and Web Publisher unlocks the file.

Adding a New File to the Server

Another common task is to add a new file to the server by uploading a local file. Whether the file is an application, a word processing document, a PDF file, a spreadsheet, or an HTML file—you can add it to the server with Web Publisher. Using the file filters, files in many different formats can be automatically converted to HTML for you. See Chapter 6, “Using Search” for more information about file filters.

To move one of your local files onto the server and have the file placed under version control, do the following:

1. In the Web Publisher window, select the folder where you want to place your new file.
2. From the File menu, choose the Upload to Server menu command. The Upload File or Folder dialog box appears.



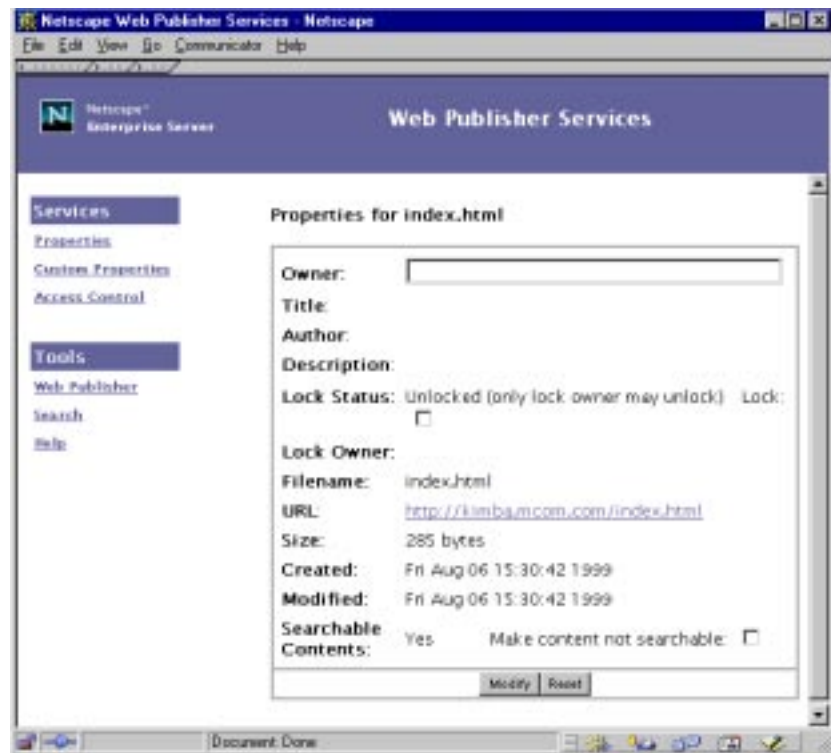
3. In the Upload Local File or Folder field, type the full pathname of your local file. If you are using Communicator, you can click the Browse button to look for the file on your local system.
4. Your destination folder's pathname appears in the To Server File or Folder field. You can also change the destination that appears.

5. You can lock a file when you put it on the server by checking the “Lock files after upload” option. The default is not to lock files.
6. Click Upload to add your local file to the server.
7. A dialog box is displayed asking you to update the file properties for this file. Click OK to go to the Web Publisher Services page with the Properties for this file.

Viewing a File's Information

You can view a file's default and custom properties from the Web Publisher Services page.

Figure 4.3 The Web Publisher Services page



File Properties

There are two types of file properties: default and custom properties. Each Web Publisher file has a set of default properties, and these are displayed when you click the Properties link. You can only modify the owner of a file, and then only if you are the assigned owner or the file has no owner. Your server administrator can also define some custom properties and these are displayed when you click the Custom Properties link. You can enter your own values for any property that has been designated as modifiable by your server administrator.

Default Properties

To see the default properties , follow these steps:

1. Select a file from the Web Publisher window .
2. Click the Information toolbar button or choose the Properties command from the View menu. The Web Publisher Services form is displayed with the file's properties page visible.
3. If the file's properties are not visible, click the Properties link to display them.

Files have the set of default properties listed here. Folders have only two modifiable properties, Description and Owner, and four read-only properties: Filename, URL, Size, and Modified. Also see Chapter 5, "Services and Menus," for information about properties.

- **Owner**—The user name assigned to the file. Only owners can modify this field. If a file has no owner, anyone can define themselves as owner. See Chapter 7, "Access Control," for more information about file ownership.
- **Title**: The HTML title, as tagged with the HTML tag of `<TITLE>`. This property is only available when the file's content is made searchable.
- **Author**: The file's author, as tagged with the HTML tag of `<META NAME="Author">`. This property is only available when the file's content is made searchable.

- **Description**—A description for the file, as tagged with the HTML tag of `<META NAME="Description">`. This property is only available when the file's content is made searchable.
- **Lock-Status**—The current lock status for the file. If a file is locked, only the lock owner can unlock it.
- **Lock-Owner**—The user name for the user that locked the file. Only the lock owner can unlock a file.
- **Filename**—The name of the file.
- **Path**—The relative filename for the file. This is the filename without the root directory.
- **URL**—The file's full pathname.
- **Size**—The size, in bytes, of the file.
- **Created**—The date when the file was created.
- **Modified**—The date when the file was last modified.
- **Searchable Contents**—A flag indicating whether or not the contents are searchable. The default is Yes.

You can perform a search on any property as well as on any searchable file contents. For example, you can search for all files that belong to a certain author, for all the locked files, or for any file with a particular string in the title field. For more information about doing searches, see Chapter 6, "Using Search."

Custom Properties

To see the default properties , follow these steps:

1. Select a file from the Web Publisher window .
2. Click the Information toolbar button or choose the Properties command from the View menu. The Web Publisher Services form is displayed with the file's properties page visible.
3. Click the Custom Properties link. A list of properties with their current values is displayed.

Services and Menus

Netscape Web Publisher provides many sophisticated file management functions. There are two ways to access this functionality: through links and buttons on the Web Publisher Services page and through the Web Publisher menu commands.

This chapter describes the Web Publisher Services page and then the menus, with each command described in the order in which it appears on the menu:

- Web Publisher Services Page
- The File Menu
- The Edit menu
- The View Menu
- The Help Menu

The functional areas of search and access control are described in separate chapters. For text search, see Chapter 6, “Using Search.” For access control, see Chapter 7, “Controlling Access.”

Web Publisher Services Page

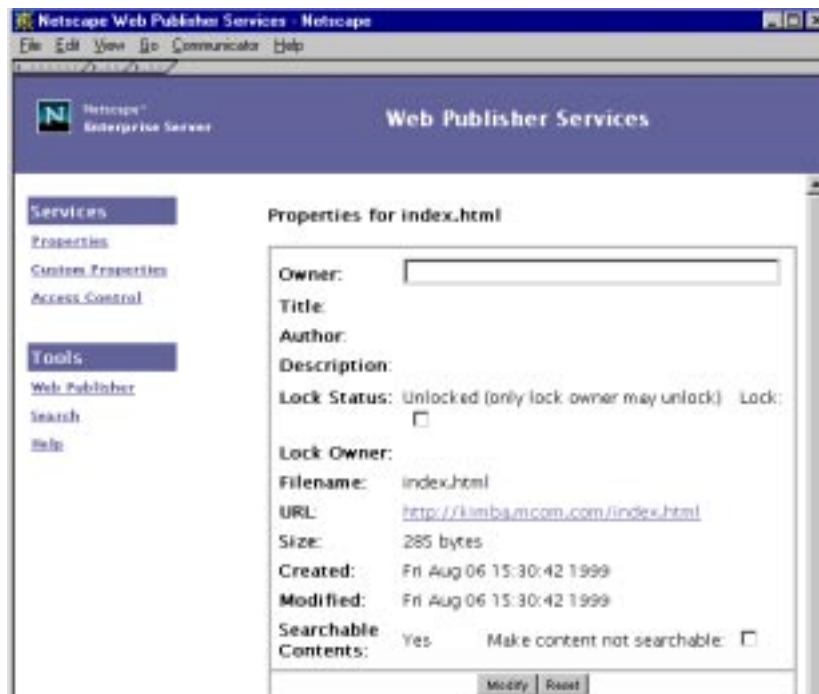
The Web Publisher Services page provides many file management functions in a single form plus providing direct access to access control, search, and help. This section describes the functions and services available from this page.

To display the Web Publisher Services page, do the following:

1. Select a file or folder in the Web Publisher window.
2. Click the Information toolbar button or choose Properties from the View menu. The Web Publisher Services page is displayed with the file's properties visible.

Note Users of Netscape Communicator can choose the Page Services command from the Communicator's View menu to display the Web Publisher Services page for the file currently being browsed.

Figure 5.1 The Web Publisher Services page



Properties

Web Publisher files and folders have a set of default properties that describe many of their attributes. For example, when a file was created, who the lock owner is, and what its URL is.

To access the properties for a file or folder from Web Publisher, do the following:

1. Select the file or folder in the Web Publisher window.
2. Click the Information toolbar button or choose Properties from the View menu. The Web Publisher Services page is displayed with the file's properties visible.

To access the properties for a file or folder through the Web Publisher Services page, do the following:

1. Click the Properties link. The Netscape Web Publisher Services window appears with the file or folder properties in the right frame.

Figure 5.2 The Properties for a file



Files have the set of default properties listed here. Folders have only two modifiable properties, Description and Owner, and four read-only properties: Filename, URL, Size, and Modified.

- **Owner**—The user name assigned to the file. Only owners can modify this field. If a file has no owner, anyone can define themselves as owner. See Chapter 7, “Access Control,” for more information about file ownership.
- **Title**: The HTML title, as tagged with the HTML tag of `<TITLE>`. This property is only available when the file's content is made searchable.
- **Author**: The file's author, as tagged with the HTML tag of `<META NAME="Author">`. This property is only available when the file's content is made searchable.
- **Description**—A description for the file, as tagged with the HTML tag of `<META NAME="Description">`. This property is only available when the file's content is made searchable.
- **Lock-Status**—The current lock status for the file. If a file is locked, only the lock owner can unlock it.

Note If a file is in an “edit” state, it is displayed as locked. Do not unlock it from this form because although the file would now appear as no longer locked or in an “edit” state, it still must be published (with the Publish All Edited Files command) before it is available to other users.

- **Lock-Owner**—The user name for the user that locked the file. Only the lock owner can unlock a file.
- **Filename**—The name of the file.
- **Path**—The relative filename for the file. This is the filename without the root directory.
- **URL**—The file's full pathname.
- **Size**—The size, in bytes, of the file.
- **Created**—The date when the file was created.
- **Modified**—The date when the file was last modified.
- **Searchable Contents**—A flag indicating whether or not the contents are searchable. The default is Yes. If set to No, you can make the contents searchable by clicking the “Make contents searchable” checkbox. After you click Modify, the file contents are available for searching.

If set to Yes, you can make contents no longer searchable by clicking the checkbox. After you click Modify, the file contents are no longer available for searching.

You can perform a search on any property as well as on any searchable file contents. For example, you can search for all files that belong to a certain author, for all the locked files, or for any file with a particular string in the title field. For more information about doing searches, see Chapter 6, “Using Search.”

Modifying a File’s Properties

You can change some properties for a file or folder. You can assign yourself as owner of a file or folder that has no owner or you can reassign ownership for files and folders that you own, you can lock an unlocked file or you can unlock files that you have locked, and you can make the file’s contents searchable or unsearchable. You can enter new values for title, author, and description, and Web Publisher will use your new values instead of those defined in the file.

To modify these fields, follow these steps:

1. Type in your new data and click any checkbox option you want to change.
2. Click Modify to change the existing property value, or click Reset to revert to the original value.

This function reindexes the selected file, updating the searchable properties (and file contents if that option is chosen).

Custom Properties

Your server administrator can create additional custom properties for the web publishing collection. Once he or she has created them, these properties are included whenever a file that is part of the web publishing collection is indexed. Such properties are user-modifiable and Web Publisher uses any values you input instead of the original value in the file once you make changes. The indexing process makes these custom properties available to you for viewing and searching.

Figure 5.3 Custom properties

Custom properties for Tool.htm

Attribute	Value
Writer	J. S. Smith
PubDate	19-Oct-1997 12:00:00 am
Product	Web Publisher

Submit Reset

Note If a file has not been indexed since the adding of the custom property, the property is not viewable. Custom properties are not available until a file has been reindexed.

To view the custom properties for a file, do the following:

1. Access the Web Publisher Services page through one of the methods described in “Web Publisher Services Page.”
2. Click the Custom Properties link. This displays a list of the custom properties that were defined by the server administrator at the time this file was last indexed.

Web Publisher Button

This button is useful for users of Netscape Communicator who have accessed the Web Publisher Services page through the page services item on the Communicator's View menu. When you click this button, a new Web Publisher applet is launched.

Access Control Button

When you click this button, the access control page is displayed. See Chapter 7, “Controlling Access” for more information about access control.

Search Button

When you click this button, the Netscape Search page is displayed. See Chapter 6, “Using Search” for more information about performing searches.

Help Button

When you click this button, the online help file containing information for this screen is displayed. This help file also contains information about the menu commands in Web Publisher.

The File Menu

The File menu provides menu commands that allow you to manage server folders, edit and publish files, and upload and download files and folders.

Creating a New Folder

The Web Publisher allows you to create new folder on the server. Because this writes a new file to the server, you must have write permission in order to do this. Web Publisher prompts you for your password to authorize the operation.

To create a new folder on the server file system:

1. Select the existing folder that is to contain the new folder. You can choose the primary document directory, or root.
2. From the File menu, choose New Folder or click the New Folder toolbar button. The Create New Folder dialog box appears with your folder displayed in the Make Folder In field. If you chose to make the folder at the root directory, the field is left blank.
3. Type the name for your new folder in the New Folder's Name field. Do not begin with a "/" or use spaces or apostrophes in the name.

4. Click Create to create the folder, or click Cancel to close the window and leave the server files untouched.

You cannot create a new folder with the same name as a folder that already exists in that directory on your server. If you try, you get an error message and the operations fails.

Opening an Existing Folder

The Web Publisher allows you to open an existing folder on the server, which implicitly reloads the current server data for this folder.

To open a folder on the server file system:

1. Select the existing folder to open.
2. From the File menu, choose Open Folder or click the Open Folder toolbar button.

The folder is displayed in the Web Publisher window as open, with its files and subfolders visible.

Browsing a File

You can browse many types of server files in your web browser. HTML files are displayed as is. PDF, email, and news files are displayed as plain text in your browser. Files in other format, such Microsoft Word and Excel can be viewed in their original format if you have a helper application defined for your browser. If you don't, the web browser prompts you to identify which application should be used.

To view the contents of a file on the server:

1. Select the file.
2. From the File menu, choose Open File in Browser or click the Browse toolbar button.

The file is displayed in a web browser window.

Editing a File

You can edit unlocked files, or files that you locked, if you have write access permission for the files. Web Publisher puts the file into an “edit state,” locking out other users so that they cannot edit your file until you have published it back to the server.

Depending on what your editor preferences are, this command launches Netscape Navigator’s HTML editor, Netscape Composer, Adobe Acrobat, Microsoft Word or Excel, a simple text editor, or some other application that you have associated with this particular file’s format. If you do not define an editor program for a given file type, Web Publisher displays an Editor Launching Error when you open the file for editing.

To edit a file in Web Publisher:

1. In the Web Publisher window, select the file you want to edit.
2. From the File menu, choose Open File in Editor to launch the file’s editor application and begin editing the file.
3. When you finish modifying the file, save it in the application and return to the Web Publisher window.

To edit a file in Netscape Composer:

1. From Netscape Navigator’s File menu, use the Open File command to select the server file for editing in Composer by entering the file’s URL. This causes Web Publisher to lock the file so other users cannot edit it simultaneously.
2. In Composer, edit the file as usual.
3. When you finish modifying the file, use the Composer’s Publish command to put it back on the server.

Canceling an Edit

You can cancel an edit operation before you save your changes in the editor application, while the file is still in an “in edit” state, so that your file is unlocked and remains unchanged on the server.

To cancel an edit:

1. From the File menu, choose Cancel Editing File.
2. The Cancel File Edit dialog box appears. Click Yes to confirm that you want to cancel the edit.

Publishing Edited Files

An edited file is not available for others to modify until it has been published back to the server. Until it is published, it is in an edit state, which locks out other users. The properties and content of new HTML files are automatically indexed during the publishing operation, making them available for searching. This happens also for non-HTML files that have an HTML conversion filter. If you are publishing a revised existing file, the publishing operation reindexes the file's properties (and contents, if that option is selected on the Properties page).

Note If a file was manually locked before you edited it, publishing the file releases the manual lock as well as the implicit editing lock.

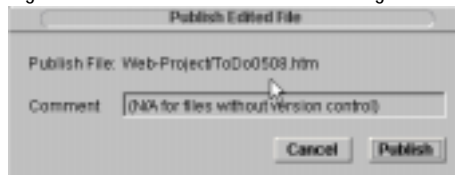
Publishing an Edited File

When you finish editing a file and save it, the new version is still not available on the server for other users until you publish it. You can only publish your own edited files. When you publish a file that does not have an owner, you are assigned as the file's owner.

To publish an edited file to the server:

1. In the Web Publisher window, select the edited file.
2. From the File menu, choose Publish An Edited File, or click the Publish toolbar button. The Publish File dialog box appears with your file's name in the Publish File field.

Figure 5.4 Publish an Edited File dialog box



3. Click Publish to publish the file.

The edited file is again available on the server, with Web Publisher adding a new version for any file under version control.

Note If you are using Netscape Composer, when you complete your changes, use the Composer's Publish command to restore it to the server. This causes Web Publisher to unlock the implicit edit lock on the file.

Publishing all Edited Files

When you finish editing a file and save it, the new version is still not available on the server for other users until you publish it. If you have edited more than one file for a given server, you can publish them all simultaneously rather than publish each file separately. If you have only edited one file, this function is disabled.

When you publish a file that does not have an owner, you are assigned as the file's owner.

To publish all edited files to the server:

1. From the File menu, choose Publish All Edited Files. The Publish All Edited Files dialog box appears with a list of all files in the "edit" state.
2. Click Publish to publish the files.

The edited files are again available on the server, with Web Publisher adding a new version for any file under version control.

Uploading to Your Server

You can put a file or folder from your local system onto the server, making it available for other users. Whether a file is an application, a word processing document, a PDF file, a spreadsheet, or HTML file—you can upload it to the server with Web Publisher.

The properties and content of new HTML files are automatically indexed during the upload, making them available for searching. This happens also for non-HTML files that have an HTML conversion filter. If you are uploading a revised existing file, uploading reindexes the file's properties (and contents, if that option is selected on the Properties page).

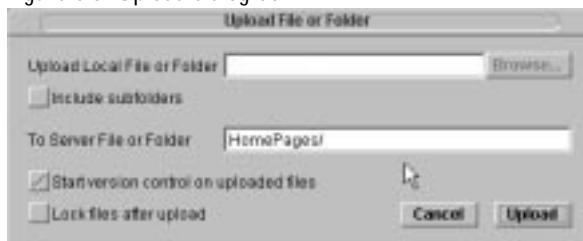
You can add a file or folder to an existing folder and set it to be locked or unlocked. When uploading a folder to the server, you can also upload its subfolders.

You can establish a default upload directory on your local system that becomes the location where Web Publisher expects your local files to be found. To do this, you define a local directory for uploading and downloading as described in “User Preferences.”

To upload a file:

1. In the Web Publisher window, select the file that you want to replace or update or select the folder that is to contain the new file.
2. From the File menu, choose Upload to Server. The Upload File or Folder dialog box appears.

Figure 5.5 Upload dialog box



3. In the Upload Local File or Folder field, type the full pathname of your local file. If you have defined a default upload folder, the folder's name is already displayed.

Note: If you upload a folder and files with the same names as those already existing on the server, Web Publisher overwrites the existing folder and files.

4. Your destination folder's pathname appears in the To Server File or Folder field. You can also change the destination that appears.
5. You can lock a file when you put it on the server by checking the "Lock files after upload" option. The default is not to lock files.
6. Click Upload to add your local file to the server.
7. A dialog box is displayed asking you to update the file properties for this file. Click OK to go to the Web Publisher Services page with the Properties for this file.

To upload a folder (for Communicator users only):

1. In the Web Publisher window, select the folder that you want to replace or update or that is to contain the newly uploaded folder.
2. From the File menu, choose Upload to Server. The Upload File or Folder dialog box appears.
3. In the Upload Local File or Folder field, type the full pathname of your local folder. If you have defined a default upload folder, the folder's name is already displayed. An alternative is to click the Browse button to find it on your local system.
4. To upload your folder's subfolders, check the Include Subfolders checkbox. The default is not to upload subfolders.

Note: If you upload a folder and files with the same names as those already existing on the server, Web Publisher overwrites the existing folder and files.

5. Your destination folder's pathname appears in the To Server File or Folder field. You can also change the destination that appears.

6. You can lock the folder's files when you put them on the server by checking the "Lock files after upload" option. The default is not to lock files.
7. Click Upload to add your local folder to the server. A dialog box is displayed giving you a summary of the completion status for the uploaded folders and files.
8. A dialog box is displayed asking you to update the properties for this folder. Click OK to go to the Web Publisher Services page with the Properties for this folder.

Downloading From the Server

You can download a file or a folder from the server to your local system. You can choose to also download the subfolders within the folder you want to download and you can choose to lock the server files that you are downloading.

You can establish a default download directory on your local system that becomes the location where Web Publisher places your downloaded files. To do this, you set a user preference as described in "User Preferences."

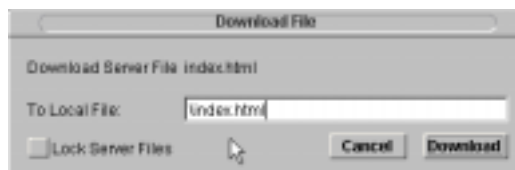
- When you download a file or folder with the Lock Server Files option set, the server files are locked so that other users can no longer edit the original server file.
- You cannot download locked or edited files as Lock for Editing unless you are the owner of the file.

To download a file or folder

1. In the Web Publisher window, select the file or folder you want to download.
2. From the File menu, choose Download From Server.

For files, the Download File dialog box appears with the name of the selected file in the Download Server File field.

Figure 5.6 Download file dialog box



For folders, the Download Folder dialog box appears with the name of the selected folder in the Download Server Folder field.

Figure 5.7 Download dialog box



3. For folders, you can check the Include Subfolders option to also download any subfolders within the selected folder.
4. Type the download destination in the To Local File (for files) or To Local Folder (for folders) field. If you have defined a default download folder, the folder's name is already displayed. For files, you can type in a different filename to rename the file as part of the download operation.
5. You can place a lock on the server files you are downloading by choosing the Lock Server Files option. The default is not to lock files.
6. Click Download to download a server file or folder to your local system. For folders, a dialog box is displayed giving you a summary of the completion status for the downloaded folders and files.

Note You can also “download” a file from the server to your local drive by opening the file in a web browser and using the Save As menu command from the Navigator's File menu. Saving a file in this manner is not recommended because it skips the automatic link management and indexing functions that are provided by Web Publisher. Files saved in this way require manual intervention to update their links and to index their contents and properties.

Exiting from Web Publisher

You can exit from Web Publisher at any time. To relaunch Web Publisher, you must return to the Web Publisher home page. See the section “The Web Publisher Home Page” in Chapter 3, “Installing and Configuring” for information about the home page.

The Edit menu

The Edit menu provides menu commands that allow you to lock and unlock files; copy, move, rename, and delete files and folders; and set user preferences.

Locking and Unlocking a File

Once you have locked a file, other users cannot move, rename, delete, or edit it until you unlock it. You can manually lock a file when you do not want other users to have access to it. You can also direct Web Publisher to lock files that you are downloading.

You can unlock any file that you locked or any file that you downloaded with the Lock Server Files option checked. You cannot lock a folder.

Note You can unlock a file that is being edited by another user, but you are strongly recommended not to do this. If you do, Web Publisher continues to list the file as a file that needs to be published even though the pen icon is removed from the Web Publisher window.

Locking a File

You can lock any file, including those owned by another user. If you lock a file, the file is displayed in the Web Publisher Services page with you as the lock owner and only you can unlock it.

To manually lock a file:

1. In the Web Publisher window, select the file you want to lock.

2. From the Edit menu, choose Lock. If you did not set a user preference to confirm locking operations, the file is locked at this point.
3. If you have set the user preference to request lock confirmations, the Lock File dialog box appears with your file's name in the Lock File field.
4. Click the Lock button to lock the file.

Note Communicator users with the Composer plug-in can also manually lock a server file from the Composer application on their local system by using Lock from the Web Publisher command on the Tools menu.

Unlocking a File

If you locked a file, you can unlock it. The server administrator is also authorized to unlock a file that you have locked.

To unlock a file:

1. In the Web Publisher window, select the file you want to unlock.
2. From the Edit menu, choose Unlock. If you did not set a user preference to confirm unlocking operations, the file is unlocked at this point.
3. If you have set the user preference to request unlock confirmations, the Unlock File dialog box appears with your file's name in the Unlock File field.
4. Click the Lock button to unlock the file.

Note Communicator users with the Composer plug-in can also manually unlock a server file from the Composer application on their local system by using Unlock from the Web Publisher command on the Tools menu.

Copying Files and Folders

You can copy locked and unlocked files and folders. You need read and write permission for all the files and folders within a folder in order to be permitted to copy the folder. You are assigned as the owner of the new folders and files.

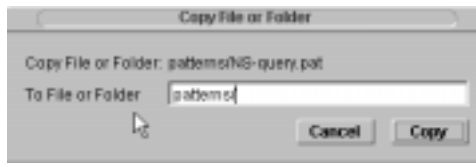
Copying a File

When you copy a file, you become the owner of the copied file. You can copy locked and unlocked files.

To copy a file:

1. Select the file in the Web Publisher window.
2. From the Edit menu, choose Copy to (or use the Control key and then drag-and-drop method to copy the file into a new location). The Copy File or Folder dialog box appears with the name of the selected file in the Copy File or Folder field.

Figure 5.8 Copy dialog box



3. Enter the filename for the new copy in the To File or Folder field (if you used the drag-and-drop method the file in step 2, this field is already filled in).
4. Click Copy to copy the file.

Copying a Folder

When you copy a folder, all the files and folders within it are copied and you become the owner of the new files and folders.

To copy a folder:

1. Select the folder in the Web Publisher window.
2. From the Edit menu, choose Copy to (or use the Control key + drag-and-drop method to copy the folder in a new location). The Copy File dialog box appears with the name of the selected folder in the Copy file field.
3. Enter the path for the new copy of the folder in the To file field (if you used the drag-and-drop method the file in step 2, this field is already filled in).

4. Click Copy to copy the folder and its files.

Moving Files and Folders

You can move unlocked server files and folders. Moving requests are subject to access control restrictions for the specified folder or file that you wish to move. If you want to prevent other users from moving your folders and files, you can use the access control function to limit the Delete access right to yourself. See Chapter 7, “Controlling Access,” for more information about access control.

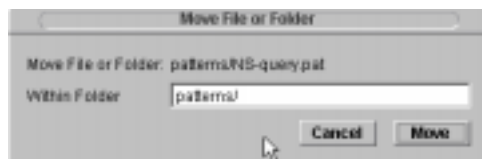
Moving a File

You can move an unlocked file if you have delete privileges for the file. You cannot move a locked or unpublished file. When you move a file that has no owner, you are assigned as the owner of the file. If the file already has an owner, the ownership is not changed.

To move a file:

1. Select the file in the Web Publisher window.
2. From the Edit menu, choose the Move to command (or use the drag-and-drop method to drag the file to its new location). The Move File or Folder dialog box appears with the name of the selected file in the Move File or Folder field.

Figure 5.9 Move dialog box



3. Enter the name of the folder that is to contain the moved file in the Within Folder field (if you used the drag-and-drop method the file in step 2, this field is already filled in). Do not type in a filename.
4. Click Move to move the file.

Moving a Folder

You can move a folder if you have read-write privileges for the folder and all the files within it. You cannot move a folder if there is any locked or unpublished file within the folder. When you move a folder and files that are not yet assigned any owner, you are assigned as the owner of the folder and its files. If the folder and files already have an owner, the ownership is not changed.

To move a folder:

1. Select the folder in the Web Publisher window.
2. From the Edit menu, choose Move to command (or use the drag-and-drop method to drag the file to its new location). The Move File dialog box appears with the name of the selected folder in the Move file field.
3. Enter the new path for the folder in the To dir field (if you used the drag-and-drop method the file in step 2, this field is already filled in).
4. Click Move to move the folder and its files.

Renaming Files and Folders

You can rename unlocked server files and folders. Renaming requests are subject to access control restrictions for the specified folder or file that you wish to rename. If you want to prevent other users from renaming your folders and files, you can use the access control function to limit the Delete access right to yourself. See Chapter 7, “Controlling Access,” for more information about access control.

Renaming a File

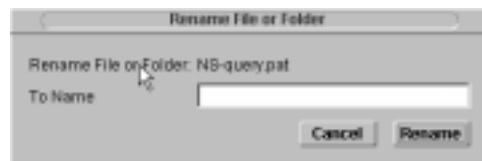
You can rename an unlocked file within a folder if you have read-write privileges for the file. You cannot rename locked or unpublished files. When you move a file that has no owner, you are assigned as the owner of the file. If the file already has an owner, the ownership is not changed.

If you rename a version controlled file, the file's version archive is still accessible through the new name. You can no longer access earlier versions through the previous filename.

To rename a file:

1. Select the file in the Web Publisher window.
2. From the Edit menu, choose Rename. The Rename File dialog box appears with the name of the selected file in the Rename file field.

Figure 5.10 Rename dialog box



3. Enter the new name for the file in the To Name field. Do not type in the file's path. That is, type `newIndex.html`, not `/docs/newIndex.html`.
4. Click Rename to rename the file.

Renaming a Folder

You can rename a folder if you have read-write privileges for the folder and all the files within it. You cannot rename a folder if there is any locked or unpublished file within the folder. When you rename a folder and files that are not yet assigned any owner, you are assigned as the owner of the folder and its files. If the folder and files already have an owner, the ownership is not changed.

To rename a folder:

1. From the Edit menu, choose Rename. The Rename File dialog box appears with the name of the selected folder in the Rename file field.
2. Enter the new folder name for the folder in the To Name field. Do not type in any additional pathname information. That is, type `Project-X`, rather than `/docs/Project-X`.
3. Click Rename to rename the folder.

Deleting Files and Folders

You can delete unlocked files and folders on the server. Once you delete a file, it is no longer searchable. Delete requests are subject to access control restrictions for the specified folder or file that you wish to delete. If you want to prevent other users from deleting your folders and files, you can use the access control function to limit the Delete access right to yourself. See Chapter 7, “Controlling Access,” for more information about access control.

You can set a user preference to request confirmation of delete operations. This is the default and is the recommended method. See “User Preferences” for more information.

Deleting a File

You can delete an unlocked file if you have delete permission for the file. You cannot delete locked or unpublished files. Once you delete a file, you can no longer search on its properties or contents.

To delete a file:

1. Select the file in the Web Publisher window.
2. From the Edit menu, choose Delete or press the Delete key. If you did not set a user preference to confirm deletions, the file is deleted at this point.
3. If you have set the user preference to request delete confirmations, the Delete File or Folder dialog box appears with your file’s name in the Delete File or Folder field.

Figure 5.11 Delete confirmation dialog box



4. Click Delete to delete the file or Cancel to close the window and leave the server file untouched.

Deleting a Folder

You can delete a folder if you have delete permission for the folder and for every file within the folder. You cannot delete a folder if there is any locked or unpublished file within the folder.

To delete a folder:

1. Select the folder in the Web Publisher window.
2. From the Edit menu, choose Delete or press the Delete key. If you did not set a user preference to confirm deletions, the folder is deleted at this point.
3. If you have set the user preference to request delete confirmations, the Delete File or Folder dialog box appears with your folder's name in the Delete File or Folder field.
4. Click Delete to delete the folder or Cancel to close the window and leave the server folders untouched.

Note Your server administrator cannot restore deleted folders. However, when you restore a file that was inside a folder that has also been deleted, Web Publisher recreates the same folder structure for your file as you had before you deleted it. This may mean that one or more folders must be created to replicate the path structure. These folders will have the same names as the deleted folders, but will be empty.

User Preferences

You can set several preferences for Web Publisher: user name, operations to confirm, display font, and which local folders to use for uploading, downloading, and storing “in edit” files. These are stored in the `nswppref.txt` file in your Navigator's WebPub folder along with some other settings that Web Publisher sets for you internally. Communicator users can also set their editor preferences from this menu. See the section, “The Web Publisher Preferences File,” for more information about this file.

User Name Preference

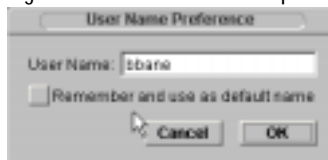
The User Name Preference dialog box lets you enter a new user name for Web Publisher. Many Web Publisher operations depend on the user's name to identify the owner or lock owner for a file.

You can check a checkbox that allows you to set this name as the default name, which means that Web Publisher does not require you to input your user name each time you launch Web Publisher. If you want to be prompted for a user name whenever you start up Web Publisher, do not check the default name checkbox.

If you leave the user name field blank, you are prompted for user name and password rather than just the password when you execute an operation that requires authorization.

You must use a username that is valid for your server. See your server administrator for more information, if necessary. Actions that require a authorization include editing, uploading, copying, moving, and renaming files as well starting version control for a file and creating a new folder on the server.

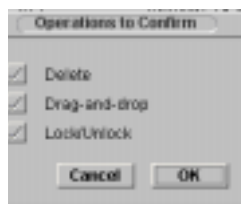
Figure 5.12 The user name preference dialog box



Operations to Confirm

The Operations to Confirm dialog box lets you to direct Web Publisher to ask for confirmation whenever you use the drag-and-drop method to copy or move files or folders, or whenever you delete, lock, or unlock files or folders. Without these options checked, Web Publisher immediately performs the action without giving you a second chance to revisit your decision.

Figure 5.13 The confirm operations dialog box



Directories

The Local Folder Preferences dialog box allows you to set two types of folder preferences: for uploading or downloading files and for storing “in edit” files.

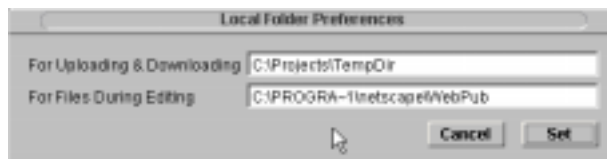
You can set a preference for which local folder is to serve as the source folder for upload operations and as the destination location for downloads. You need to enter the full physical path. For example, `C:\Projects\TempDir`.

You can also set a preference for which local folder to use for files during editing, that is, as the temporary storage folder for files in an “in edit” state. Unless you are using Netscape Composer to edit your HTML files and you have set your editor preference to edit directly on the server, files being edited are temporarily copied to your local system. Once you publish the file, the temporary “in edit” file is deleted from your local system.

You cannot change your local folder preferences while a file is still in an edit state. You must publish all edited files before you can change a directory preference.

Note For Windows systems that require 8.3 file notation, you must use pathnames with this notation for your directory preferences. Because it occurs so frequently, Web Publisher handles one case for you automatically: If the folder you want to use for files during editing has `Program Files` as part of its pathname, Web Publisher translates it to `Progra~1` for you.

Figure 5.14 The local folder preferences dialog box



Font

The Font Chooser dialog box lets you define the font, font size, and font style to display in the window. Fonts in other windows and dialog boxes are not modifiable.

To close this dialog box, you must click the button in the top left corner. Clicking the Set button does not make the dialog box disappear.

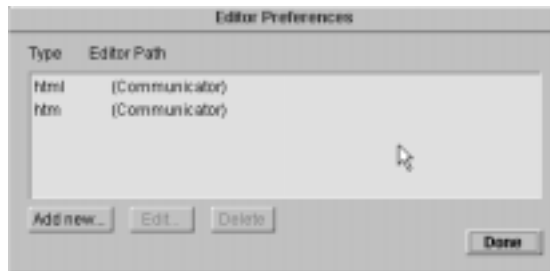
Figure 5.15 The font chooser dialog box



Editors

The Editor Preferences dialog box lists the defined editor applications that have been associated with specific file types. The default is to list the Composer component of Netscape Communicator as the HTML editor of choice.

Figure 5.16 The editor preferences



If you want to associate another editor program with a specific file type, you can use the Set Editor Program dialog box to enter the file extension for the file and indicate the executable program file.

Figure 5.17 The set editor program preferences dialog box



The View Menu

The View menu provides several commands for viewing or redisplaying Web Publisher data. The first command, Properties, displays the Web Publisher Services page, which is the main page for viewing data about your files and folders. From this page, you can look at the version history for a file, check links, and view any custom properties that have been defined

The other View menu commands let you to change the sort sequence for the contents of the window, to reload and refresh the window data, and to show or hide the Web Publisher toolbar.

Properties

To view a file's properties through the Web Publisher Services page, do the following:

1. Select the file.
2. From the View menu, choose Properties or click the Information toolbar button. The Web Publisher Services window appears. See "Properties" earlier in this chapter and "File Properties" on page 36 in Chapter 4, "Web Publisher QuickStart" for more information.

Sorting Files and Folders

You can choose to sort the files and folders in various different sort sequences. There are two ways to do this:

- From the View menu, choose Sort By and choose the appropriate sort sequence from the submenu (Name, Date, or Size).
- Alternatively, you can click the heading above the name, date, or size columns to resort the files and folders displayed in the window.

Redrawing the Window

You can choose to redraw the Web Publisher window to resolve display problems you may have with the current image of the window.

To redraw the window, do this:

1. From the View menu, choose Redraw Window.

Reloading the Window

You can reload the Web Publisher window to ensure that the window displays the latest set of files and their current status from the server. This ensures that you have all the current file management changes. In particular, this is useful to update the displayed owner and lock status of a file.

To reload the window, do this:

1. From the View menu, choose Reload Window.

Showing the Toolbar

You can toggle the toolbar on and off:

- To show the toolbar, from the View menu, choose Show Toolbar
- To hide the toolbar, from the View menu, choose Hide Toolbar.

The Help Menu

The Help menu has two items to provide assistance for Web Publisher and to provide some basic product information.

Web Publisher Help

You can access the Web Publisher User's Guide to get additional information about how to install the product, to find out more details about the Web Publisher functions and services, and to learn about using text search and access control.

To access the User's Guide, do the following:

1. From the Help menu, choose the Web Publisher Help command.
2. This opens up a new web browser with the table of contents. You can navigate the User's Guide files by clicking on the topics you are interested in and then going back and forward as usual.

About

You can access some basic information about Web Publisher, including the product's current version number, by viewing the About box for the product.

To access the About box, do the following:

1. From the Help menu, choose the About command.

Using Search

The Netscape Web Publisher search function provides you with the ability to search the file information and contents of documents on a remote server. Server documents can be in a variety of formats, such as HTML, Microsoft Word, Adobe PDF, and WordPerfect. The server converts many types of non-HTML documents into HTML as it indexes them so that you can use your web browser to view the documents that are found for your search.

This chapter discusses these topics:

- Preparing Data for Searching
- Performing a Search: The Basics
- Using the Query Operators

Preparing Data for Searching

To enable searching capability on your server, the server administrator begins by identifying the documents that you want to be able to search. Before you can execute searches, you need a database of searchable data against which you can target your searches. Your server administrator has to create a document information database, called a *collection*, that indexes and stores the content and file properties for each of the documents you want to be able to search.

In the case of Web Publisher, there is a default web publishing collection that contains all the documents that you have published, uploaded, or otherwise manipulated through Web Publisher. Your server administrator can also do bulk indexing of web publishing data for you, for example, by indexing all the documents in the document directory defined for Web Publisher.

Collections contain such information as the format of the documents, the language they are in, their searchable attributes, the number of documents in the collection, the collection's status, and a brief description of the collection. For more details, see the section "Displaying Collection Contents."

This section discusses these topics:

- About Collection Attributes
- META-Tagged Attributes

About Collection Attributes

Server documents can be in a variety of formats, such as HTML, Microsoft Excel, Adobe PDF, and WordPerfect provided that there is a conversion filter available for a particular file format. With the filters, the server converts the documents into HTML as it indexes them so that you can use your web browser to view the documents that are found for your search. Enterprise Server does not include a standard set of filters for converting different file types to HTML for search indexing and web publisher conversion. If you want to use these capabilities, your server administrator can purchase filters from Verity. See <http://www.verity.com/netscapefilters> and the Enterprise Server 4.0 Administrator's Guide for more information.

Complex PDF files, such as those that are password protected or that contain graphical navigation elements cannot be correctly converted when they are indexed as part of a multi-format collection. The file data converts correctly when they are part of a PDF-only collection. Graphic elements are not converted.

Certain file formats have a default set of attributes that are indexed for files of that type, as shown in Table 6.1. Note that ASCII files have no default attributes.

Table 6.1 The default attributes indexed for each file format

File format	Attribute	Type	Description
ASCII	-	-	-
HTML	Title	text	The user-defined title of the file.
	SourceType	text	The original format of the document.
NEWS	From	text	The source userID of the news item.
	Subject	text	The text from the subject field of the news item.
	Keywords	text	Any keywords defined for the news item
	Date	date	The date the news item was created.
EMAIL	From	text	The source userID of the email.
	To	text	The destination userID of the email.
	Subject	text	The text from the email's subject field.
	Date	date	The date the email was created.
PDF	InstanceID	text	An internal ID number.
	PermanentID	text	An internal ID number.
	NumPages	integer	The number of pages in the document.
	DirID	text	The directory where the PDF file exists.
	FTS_ModificationDate	date	The document's last modification date.
	FTS_CreationDate	date	The document's creation date.
	WXEVersion	integer	The version of Adobe Word Finder used to extract the text from the PDF document.
	FileName	text	The Adobe filename specification.
	FTS_Title	text	The document's title.
	FTS_Subject	text	The document's subject.

Table 6.1 The default attributes indexed for each file format

FTS_Author	text	The document's author.
FTS_Creator	text	The document's creator.
FTS_Producer	text	The document's producer.
FTS_Keywords	text	The document's keywords.
PageMap	text	The page map, describing the word instances for the page.

META-Tagged Attributes

By default, HTML collections only have `Title` and `SourceType` attributes, but they can be set up to also permit searching and sorting by up to 30 file attributes tagged with the HTML `<META>` tag.

For example, a document could have these META-tagged attributes:

```
<META NAME="Writer" CONTENT="J. S. Smith">
<META NAME="PubDate" CONTENT="07-24-00">
<META NAME="Product" CONTENT="Communicator">
```

If this document had been indexed with its META tags extracted, you could search it for specific values in the writer, publication date, or product fields. For example, you could enter this query: `Writer <contains> Smith` or `PubDate > 1/1/00`.

Note Any attribute values in META-tagged fields are text strings only, which means that dates and numbers are sorted as text, not as dates or numbers. Also, illegal HTML characters in a META-tagged attribute are replaced with a hyphen.

Performing a Search: The Basics

Users are primarily concerned with querying the data in the search collections and getting a list of documents in return. The default installation of the Enterprise server includes a set of search query and result pages to allow users a quick and easy way of doing searches.

You can search through server documents for a specific word or attribute value, obtaining a set of search results that list all documents that match the query. You can then select a document from the list to browse it in its entirety. This provides easy access to server content.

There are four parts to text searching:

- making a query—you enter your search criteria.
- displaying search results—the server displays a list of the documents that match your criteria.
- viewing a document—you can view a specific highlighted document from the search results list.
- viewing the contents of a document information collection—you can look at the information that is maintained for each of your collections.

This section discusses these topics:

- Creating a Search Query
- Getting Search Results
- Displaying Collection Contents

Creating a Search Query

There are three default search query pages: standard and advanced HTML forms and a Java-based guided applet.

On the standard search form, you select a collection to search against and type in a word or phrase to search for using the query language operators.

On the advanced HTML form, you have the additional options of selecting multiple collections to search through, establishing a sort sequence for the results, and defining how many documents are to be displayed on a page at a time (clicking the Prev and Next arrows moves you through the pages of results).

In the guided Java-based search applet, the applet uses several drop-down lists to guide you through constructing a query. You must have Java enabled for your browser to use this applet.

This section discusses these topics:

- The Standard Search Query Form
- The Advanced HTML Search Query Page
- The Guided Search Applet

The Standard Search Query Form

To perform a standard search, follow these steps:

1. Type this URL in the location field in your web browser:

`http://yourServer/search`

Figure 6.1 The standard search query page

The screenshot shows a web browser window displaying the Netscape Search interface. At the top, there is a magnifying glass icon and the text "Netscape Search on kluha.ascom.com". Below this, a horizontal line separates the header from the main content. The main content area contains the instruction: "To search, choose a collection, then enter words and phrases, separated by commas (e.g., search, jet engine, tractorball)." There are two input fields: "Search in:" with a drop-down menu currently showing "Web Publishing" and a mouse cursor hovering over it, and "For:" with an empty text box. To the right of the "Search in:" field are two buttons: "Guided Search" and "Help". To the right of the "For:" field is a "Search" button with a magnifying glass icon. At the bottom of the page, there is a small copyright notice: "Copyright © 1997 Netscape Communications Corporation. All Rights Reserved."

2. In the search query page that appears, choose the collection you want to search through from the drop-down list in the Search In field.
3. Enter the word or phrase for your search query in the For field. You can create complex queries by combining operators. See "Query Operators: a Reference" for details about the search operators.
4. Click the Search button to execute your query.

The Advanced HTML Search Query Page

You can choose to use the advanced HTML search form, which helps you construct the query. This form is especially useful if you want to search through more than one collection or that produces results sorted by a specific attribute value.

To access advanced HTML search through the standard search query page, follow these steps:

1. Go to the standard search query page by typing this URL in the location field in your web browser:

`http://yourServer/search`
2. Disable Java for your browser. To do this, use the Languages option preferences menu command.
3. Click Guided Search on the standard search form to display the advanced HTML query page.

Figure 6.2 The advanced HTML search query page



The screenshot shows the Netscape Search on kinko.com interface. At the top, there is a magnifying glass icon and the text "Netscape Search on kinko.com". Below this, a text box contains instructions: "To search, choose collections, then enter words and phrases, separated by commas (e.g., search, jet engines, basketball)." and "Sorting is done on any defined attributes. Use '-' to specify descending order sort (e.g., Title, -Author, *Date)". The form includes a "For:" text input field, a "Search" button with a magnifying glass icon, a "Sort by:" text input field, a "Documents to return:" text input field with the value "20", and a "Search in:" dropdown menu currently set to "Web Publishing". At the bottom, there are "Simple Search" and "Help" buttons. A copyright notice at the very bottom reads: "Copyright © 1997 Netscape Communications Corporation. All Rights Reserved."

4. In the For field, type in the word or phrase you want to search for. You can create complex queries by combining operators. See "Query Operators: a Reference" for details about the search operators.
5. You can type in one or more attributes to sort the results by. The default is an ascending sort order, but you can indicate a descending sort order with a minus, as in -Pubdate. (See "Sorting the Results" for more information about sorting).

6. Depending on how many fields are listed for each document in the search results page or how many you want to see at a time, you can expand or limit the number of matching documents you want the search to return at a time. The Prev and Next buttons allow you access to additional pages of documents if there are too many to fit on a page at once.
7. Use the drop-down list in the Search In field to choose the collection you want to search through. You can select more than one collection by holding down the Control key as you click on another collection. All collections in a query must be in the same language.
8. Click the Search button to execute your query.

The Guided Search Applet

You can choose to use the Java-based guided search interface, which helps you construct the query. This is especially useful if you want to build a query that has several parts, say searching for a word in the documents' content as well as a specific attribute value.

Note Make sure Java is enabled for your browser. To do this, use the Languages option preferences menu command.

Note Attributes for link management and agent services are listed, but these are no longer used in Web Publisher 4.0, so they will not produce useful results.

To access guided search from the standard search query page, follow these steps:

1. Obtain the standard search query page by using this URL:
`http://yourServer/search`
2. Click Guided Search on the standard search page to display the guided Java-based query page.

Figure 6.3 The guided search query applet

The screenshot shows a web-based search interface. At the top, there is a 'Search in:' dropdown menu with 'Web Publishing' selected, and an 'Advanced' checkbox that is checked. Below this is a 'for:' dropdown menu with 'Words' selected. A large, empty text input field is positioned below the 'for:' dropdown. Further down, there are two radio buttons: 'and search for...' and 'or search for...'. To the right of these are three buttons: 'Help', 'Add Line', and 'Search'. Below the radio buttons are two more buttons: 'Undo Line' and 'Clear'. At the bottom, there is a large text display box containing the query 'title <contains> online'. A cursor is visible at the end of the text in the display box.

3. Choose the collection you want to search through from the drop-down list in the Search In field.
4. Use the For drop-down list to select the type of element you wish to search for. In this example, choose Words.
5. In the blank text field, type in the word you want to search for. See “Query Operators: a Reference” for details about the search operators.
6. Click Add Line to add the first part of the query. The word appears in the large text display box at the bottom of the form.
7. To add to your query, choose another element from the drop-down list. In this example, choose Attribute.
8. A new drop-down list appears on the right side of the form, listing all attributes that are available for the chosen collection. Choose the attribute you want to search against.
9. From the drop-down list above the text input field, choose a query operator (Contains, Starts, Ends, Matches, Has a substring) or logical operator (=, <, >, <=, >=) for your query.
10. In the blank text field, type in the attribute value you want to search for.
11. Click Add Line to add another line for your query. You can click Undo Line to remove the last line you added or Clear to remove the entire query.
12. Click the Search button to execute the search.

Getting Search Results

There are two standard types of search results: a list of all documents that match the search criteria and the text of a single document that you selected from the list of matching documents.

This section discusses these topics:

- Access Permission Checking
- Listing Matched Documents
- Sorting the Results
- Displaying a Document

Access Permission Checking

Which documents you get for your search results depend on the access control rules set for each of the documents and collections involved. The server does an access check when you perform these actions:

- searching on the Web Publishing collection only, not as part of a multi-collection search
- searching on any collection other than the Web Publishing collection, singly or as part of a multi-collection search
- clicking on the URL for a document listed as part of the search results
- clicking on the link, which may be a graphical element, that displays the document with the search query word or phrase in highlighted text.

If the server encounters an access control rule that restricts your access to a document that matches your query, the document is not listed as part of the search results. If you do not have permission to view a document listed in the search results, the server does not display it.

Listing Matched Documents

In the default installation of the Netscape Enterprise Server, when you execute a search from either the simple or advanced search query pages, you obtain a list of the documents that match your search criteria. The list gives some

standard information about each file, depending on the collection's format. For example, the default results page for email collections give subject, to, from, and date for each entry and news collections give subject, from, and date for each entry.

Figure 6.4 Sample search results



The kind of file format in the collection indicates which default attributes are available for searching. See “About Collection Attributes” and Table for information about the attributes for each format.

For entries resulting from a search that checks for comparative proximity of words to each other or for the exactness of the match, the file's ranking can be provided by showing a score.

If there are more matching documents than can fit on a page, click Next to see the next batch. You can always execute a new search by entering new query data and clicking Search.

Sorting the Results

By default, or if you don't enter anything in the Sort By field on the advanced HTML query page, all documents matching the search are output according to their relevance ranking (for queries that consider this) or their position in the server file database (for other queries).

If you enter an attribute name in the Sort By field, the documents are displayed in an ascending sort sequence. You can list the documents in a descending sort sequence by adding a minus sign (-) prefix to the attribute, as in `-keywords` or `-title`. You can do a multiple sort, by typing in more than one field, as in `Author,-PubDate`.

In a short query, sort order usually isn't critical, but in queries that result in a great many matches, you may want to set a sort value in order to obtain useful search results. Note, however, using a special sort sequence may impact the search's performance.

Note Attribute values in META-tagged fields are text strings, which means that dates and numbers are sorted as text, not as dates or numbers. To convert the value into a date or number, you can create a new property in the Web Publishing|Add Custom Property form and check the box that marks this property as a META-tagged attribute.

Displaying a Document

In the default installation of Netscape Enterprise Server, when you obtain a list of the documents that match your search criteria, you can select a single document to display in your web browser. The browser can display the original document or you can choose to display the document with additional formatting so that your search query word or phrase is highlighted with such text attributes as color, boldface, or blinking.

To view the original document, click on the hypertext link containing the document's URL. In the case of documents that have been converted into HTML, the URL points you to the original document. Clicking on this link spawns an external viewer to display the document in its original format.

To view a highlighted document, click on the graphical element next to the document's entry in the search results.

Displaying Collection Contents

You can display the contents of your collection database to see which attributes are set for each collection. Your server administrator may have defined some collections as non-displayable, in which case they are not included in the output. The collection contents typically include these items:

- collection name, label, and description
- collection format
- number of attributes in the collection and a list of their names
- number of documents in the collection
- collection size and status
- language and character set
- input and output date formats

To display your collection database contents, type this line in the web browser's URL location field (be sure not to include any spaces):

```
http://yourServer/search?NS-search-page=c
```

Using the Query Operators

To perform an effective search, you need to know how to use the query operators. You can only do Boolean searches, so all the subsequent information is based on Boolean search rules.

Note The query language is not case-sensitive. The examples use uppercase for clarity only.

The search engine interprets the search query based on a set of syntax rules. For example, by entering the word *region*, the actual word *region* and all its stemmed variations (such as *regions* and *regional*) are found. The search results are ranked for “importance,” which means how close the matched word comes to the originally input search criteria. In the example above, *region* would rank higher than any of the stemmed variants.

Not all queries rank their results. For example, queries that check whether a given string matches the value in a field cannot perform a comparison: either the string matches the value or it doesn't. The same is true for checking whether a string is contained in a field, or begins or ends a field.

This section discusses these topics:

- Default Assumptions

- Search Rules
- Determining Which Operators to Use
- Query Operators: a Reference
- Using Wildcards

Default Assumptions

The search query language has some implicit defaults and assumptions that dictate how it interprets your input. In some cases, you can circumvent the defaults, but here is how the search engine decides what you want as the search results:

<STEM>—Search finds all documents that contain any stemmed variant of the search word or phrase. The search engine looks at the meaning of the word, not just its spelling. For example, if you want to search on *plan*, the results would include documents that contain *planning* and *plans*, but not those that contain *plane* or *planet*.

<MANY>—Search considers how often the search word or phrase appear in the found documents and ranks the results for frequency (or *relevancy*).

<PHRASE>—Search considers words separated by spaces to be part of a phrase. For example, *Monterey otter* is interpreted as a phrase and both must be present and together to be found. Such a search would not find documents containing *sea otter* or *Monterey Bay*.

Note In any case where it's not clear that two words are to be considered as a phrase, you can use parentheses for clarity. For example, <PHRASE> (*rise "and" fall*).

OR—Search considers each word or phrase in the query separated by a comma to be optional, although at least one must be present. In effect, this is an implicit OR operation. For example, *Monterey, otter* is interpreted as searching for documents that contain either *Monterey* or *otter*. Note that angle brackets are not required for OR.

Search Rules

To create complex searches, you can combine query operators, manipulate the query syntax, and include wildcard characters.

This section discusses these topics:

- Angle Brackets
- Combining Operators
- Using Query Operators as Search Words
- Canceling Stemming
- Modifying Operators

Angle Brackets

With the exception of the AND, OR, NOT, and the date and numeric comparison operators, you need to enclose query operators in angle brackets, as in <CONTAINS> and <WILDCARD>.

Combining Operators

You can combine several query operators into a single query to obtain precise results. For example, you can input the following query to limit your search to those documents that have *Bay* and *Monterey* but to exclude those that mention *Aquarium*

```
Monterey AND Bay NOT <CONTAINS> Aquarium
```

You can achieve even greater precision by including some implicit phrases, as in the following query that finds documents that refer to the *Monterey Bay Aquarium* by its full name and also mention *otters* but do not refer to *shark*:

```
Monterey Bay Aquarium AND otter AND NOT shark
```

Using Query Operators as Search Words

You can use any of the query operators as a search word, but you must enclose the word in quotation marks. For example, you could search for documents about the *ebb and flow* of the tides with the following query:

```
<CONTAINS> ebb "and" flow
```

Canceling Stemming

You can cancel the implicit stemming by using quotation marks around a word. For example, you can be exact by using a query such as this:

```
"plan"
```

This search only results in documents that contain the exact word *plan*. It ignores documents with *plans* or *planning*.

Modifying Operators

You can use AND, OR, and NOT to modify other operators. For example, you may want to exclude documents with titles that contain the phrase *theme park*. A query such as this would solve this problem:

```
Title NOT <CONTAINS> theme park
```

Determining Which Operators to Use

Use the following reference to help determine which operators to use. Note that the query language is not case-sensitive, so <starts> and <STARTS> are equivalent. This document uses uppercase for clarity only.

Table 6.1 Deciding which operator to use

Type of Search	Valid Operators	Examples
Finding documents by date or numeric value comparison.	is equal to (=), greater than (>), greater than or equal to (>=), less than (<), less than or equal to (<=)	DATE >= 06-30-96 Finds documents created on or after June 30, 1996.
Finding words or phrases in specific document fields or in specific locations in the field.	<STARTS>, <CONTAINS>, <ENDS>, is equal to (=)	Title <STARTS> Help Finds documents with titles that start with <i>Help</i> .
Finding two or more words in a document.	AND, <NEAR/1>	specifications AND review Finds documents that contain both <i>specifications</i> and <i>review</i> .

Query Operators: a Reference

The following table describes some commonly used operators and provides examples of how to use each one. All are relevance ranked except where explicitly noted.

Table 6.2 Query language operators

Operator	Description	Examples
AND	Adds mandatory criteria to the search. Finds documents that have all of the specified words.	Antarctica AND mountain climb Finds only documents containing both <i>Antarctica</i> and <i>mountain climb</i> plus all the stemmed variants, such as <i>mountain climbing</i> .
<CONTAINS>	Finds documents containing the specified words in a document field. The words must be in the exact same sequential and contiguous order. You can use wildcards. Only alphanumeric values. Does not rank documents for relevance.	Title <CONTAINS> higher profit Finds documents containing the phrase <i>higher profit</i> in the title. Ignores documents with <i>profits higher</i> in the title.
<ENDS>	Finds documents in which a document field ends with a certain string of characters. Does not rank documents for relevance.	Title <ENDS> draft Finds documents with titles ending in <i>draft</i> .
equals (=)	Finds documents in which a document field matches a specific date or numeric value.	Created = 6-30-96 Finds documents created on June 30, 1996.
greater than (>)	Finds documents in which a document field is greater than a specific date or numeric value.	Created > 6-30-96 Finds documents created after June 30, 1996.
greater than or equal to (>=)	Finds documents in which a document field is greater than or equal to a specific date or numeric value.	Created >= 6-30-96 Finds documents created on or after June 30, 1996.

Table 6.2 Query language operators

Operator	Description	Examples
less than (<)	Finds documents in which a document field is less than a specific date or numeric value.	<p>Created < 6-30-96</p> <p>Finds documents created before June 30, 1996.</p>
less than or equal to (<=)	Finds documents in which a document field is less than or equal to a specific date or numeric value.	<p>Created <= 6-30-96</p> <p>Finds documents created on or before June 30, 1996.</p>
<MATCHES>	<p>Finds documents in which a string in a document field matches the character string you specify.</p> <p>Ignores documents that contain partial matches.</p> <p>Does not rank documents for relevance.</p>	<p><MATCHES> employee</p> <p>Finds documents containing <i>employee</i> or any of its stemmed variants such as <i>employees</i>.</p>
<NEAR>	Finds documents that contain the specified words. The closer the terms are to each other in the document, the higher the document's score.	<p>stock <NEAR> purchase</p> <p>Finds any document containing both <i>stock</i> and <i>purchase</i>, but gives a higher score to a document that has <i>stock purchase</i> than to one that has <i>purchase supplies and stock up</i>.</p>
<NEAR/N>	Finds documents in which two or more specified words are within N number of words from each other. N can be an integer up to 1000. Also ranks the documents for relevance based on the words' proximity to each other.	<p>stock <NEAR/1> purchase</p> <p>Finds documents containing the phrases <i>stock purchase</i> and <i>purchase stock</i>.</p> <p>Ignores documents containing phrases like <i>purchase supplies and stock up</i> because <i>stock</i> and <i>purchase</i> do not appear next to each other.</p> <p>When N is 2 or greater, finds documents that contain the words within the range and gives a higher score for documents which have the words closer together.</p>

Table 6.2 Query language operators

Operator	Description	Examples
NOT	Finds documents that do not contain a specific word or phrase. Note: You can use NOT to modify the OR or the AND operator.	surf AND NOT beach Finds documents containing the word <i>surf</i> but not the word <i>beach</i> .
OR	Adds optional criteria to the search. Finds any document that contains at least one of the search values.	apples OR oranges Finds documents containing either <i>apples</i> or <i>oranges</i> .
<PHRASE>	Finds documents that contain the specified phrase. A phrase is a grouping of two or more words that occur in a specific order.	<PHRASE> (rise "and" fall) Finds documents that include the entire phrase <i>rise and fall</i> . The <i>and</i> is in quotes to force the search to interpret it as a literal, not as an operator.
<STARTS>	Finds documents in which a document field starts with a certain string of characters. Does not rank documents for relevance.	Title <STARTS> Corp Finds documents with titles starting with <i>Corp</i> , such as <i>Corporate</i> and <i>Corporation</i> .
<STEM> (English only)	Finds documents that contain the specified word and its variants.	<STEM> plan Finds documents that contain <i>plan</i> , <i>plans</i> , <i>planned</i> , <i>planning</i> , and other variants with the same meaning stem. Ignores similarly spelled words such as <i>planet</i> and <i>plane</i> that don't come from the same stem.
<SUBSTRING>	Finds documents in which part or all of a string in a document field matches the character string you specify. Similar to <MATCHES>, but can match on a partial string. Does not work with wildcards. Does not rank documents for relevance.	<SUBSTRING> employ Finds documents that can match on all or part of <i>employ</i> , so it can succeed with <i>ploy</i> . Note: This works with literals only. If you input <i>web*</i> , the asterisk does not work as a wildcard, so the search succeeds only with the exact "web*" string.

Table 6.2 Query language operators

Operator	Description	Examples
<WILDCARD>	<p>Finds documents that contain the wildcard characters in the search string. You can use this to get words that have some similar spellings but which would not be found by stemming the word.</p> <p>Some characters, such as * and ?, automatically indicate a wildcard-based search, so you don't have to include the word <WILDCARD>.</p>	<p><WILDCARD> plan*</p> <p>Finds documents that contain <i>plan</i>, <i>plane</i>, and <i>planet</i> as well as any word that begins with <i>plan</i>, such as <i>planned</i>, <i>plans</i>, and <i>planetopolis</i>.</p> <p>See the next section for more details and examples.</p>
<WORD>	Finds documents that contain the specified word.	<p><WORD> theme</p> <p>Finds documents that contain <i>theme</i>, <i>thematic</i>, <i>themes</i>, and other words that stem from <i>theme</i>.</p>

Using Wildcards

You can use wildcards to obtain special results. For example, you can find documents that contain words that have similar spellings but are not stemmed variants. For example, *plan* stems into *plans* and *planning* but not *plane* or *planet*. With wildcards, you can find all of these words.

Some characters, such as * and ?, automatically indicate a wildcard-based search and do not require you to use the <WILDCARD>operator as part of the expression.

Table 6.3 Wildcard operators

Character	Description
*	<p>Specifies 0 or more alphanumeric characters. For example, <code>air*</code> finds documents that contain <i>air</i>, <i>airline</i>, and <i>airhead</i>.</p> <p>Cannot use this wildcard as the first character in an expression.</p> <p>This wildcard is ignored in a set of ([]) or in an alternative pattern ({ }).</p> <p>With this wildcard, the <WILDCARD> operator is implicit.</p>
?	<p>Specifies a single alphanumeric character, although you can use more than one ? to indicate multiple characters. For example, <code>?at</code> finds documents that contain <i>cat</i> and <i>hat</i>, while <code>??at</code> finds documents that contain <i>that</i> and <i>chat</i>.</p> <p>This wildcard is ignored in a set of ([]) or in an alternative pattern ({ }).</p> <p>With this wildcard, the <WILDCARD> operator is implicit.</p>
{ }	<p>An alternative pattern that specifies a series of patterns, one for each pattern separated by commas. For example, <code><WILDCARD> 'Chat{s, ting, ty}'</code> finds documents that contain <i>chats</i>, <i>chatting</i>, and <i>chatty</i>.</p> <p>You must enclose the entire string in back quotes and you cannot have any embedded spaces.</p>
[]	<p>A set that specifies a series of characters that can be used to find a match. For example, <code><WILDCARD> '[chp]at'</code> finds documents that contain <i>cat</i>, <i>hat</i>, and <i>pat</i>.</p> <p>You must enclose the entire string in back quotes and you cannot have any embedded spaces.</p>

Table 6.3 Wildcard operators

Character	Description
^	Specifies one or more characters to exclude from a set. For example, <WILDCARD> 'C[^i o]t' finds documents that contain <i>cat</i> and <i>cut</i> , but not <i>cot</i> . The caret (^) must be the first character after the left bracket.
-	Specifies a range of characters in a set. For example, <WILDCARD> 'Ch[a-j]t' finds documents that contain any four-letter word from <i>chat</i> to <i>chjt</i> .

Wildcards as Literals

Sometimes you may want to search on characters that are normally used as wildcards, such as the `*or?` expression. To use a wildcard as a literal, you must precede it with a backslash. In the case of asterisks, you must use two backslashes. For example, to search on a magazine with a title of `Zine***`, you would type:

```
<WILDCARD>Zine\\*\\*\\*
```

Several characters have special meaning for the search engine and require you to use back quotes to be interpreted as literals. The special search characters are listed here:

- comma ,
- left and right parentheses ()
- double quotation mark "
- backslash \
- at sign @
- left curly brace {
- left bracket [
- back quote ' (**Note:** You can only search on back quotes as literals if your server administrator has set this up.)

For example, to search for the string "a{b", you would type

```
<WILDCARD>'a{b'
```

For another example, if you wanted to search on the string "c't", which contains a back quote, you would type

```
<WILDCARD>'c' `t'
```

Controlling Access

You can control who accesses your Web Publisher documents and directories and what operations different users or different groups of users can perform upon them. You can completely prohibit access to a file or folder or you can restrict access to certain authenticated users.

Note You can display or modify access control only for your own files or folders. If you want to define the access permissions for a file or folder that has no owner, you must first go to the Web Publisher Services page and use the Properties form to assign ownership to yourself. See the section, “Ownership of Files and Folders,” for more information about this topic.

Access control is based on a hierarchy of rules that specify certain restrictions. A set of rules is called an *access control list* (ACL). The access control hierarchy is based on the URL Path or file path, with ACL rules cascading from the top down through each progressively lower layer of directories and subdirectories until it reaches the file. When a request for access is made, the server goes in turn through each rule, continuing until it encounters a rule that prevents it from continuing or comes to the last rule for that resource.

This chapter discusses these topics:

- User Authentication
- Web Publisher Access Permissions
- Ownership of Files and Folders

- Setting Access: An Example
- Access Control: The Details
- The Access Control Window
- Additional Options

User Authentication

You identify yourself by entering your user name and password in a dialog box or by using a client certificate installed in your web browser, such as Netscape Navigator or Netscape Communicator.

If your server isn't handling authentication for you with certificates, you must be defined in the server's users and groups database, which can be either a file stored on the web server computer or an LDAP server on a remote computer (for example, a computer running Netscape Directory Server).

When you attempt to access a file or directory that has User-Group authentication, the web browser displays a dialog box asking you to enter your user name and password. Figure 7.1 shows the default Netscape Enterprise Server authentication dialog box.

Figure 7.1 The authentication dialog box.



After entering the information, you are either allowed to access the file or directory listing requested or you are denied access. You can be denied access because you are not in the Users and Groups database, and are therefore unknown to the server, or because you have been specifically denied access in an access control rule.

Web Publisher Access Permissions

Web Publisher has many operations that are restricted to the broad category of valid server user. Many ACL rules, such as that for agents services, simply require a user to be valid for the server. That is, users who are defined in the server's users database.

When you start Web Publisher, you are immediately prompted with the user name authorization dialog box. You can leave this blank and operate as an anonymous user, but as soon as you attempt to perform an operation restricted to a valid user, you are again prompted for your user name. At this point, you are also asked to enter your password, and only authenticated users can continue with the operation.

Ownership of Files and Folders

Web Publisher files and folders can be owned by individual users. Only the owner of a file or folder can define its access control definitions or reassign its ownership. If a file or folder has no owner, no one can modify its access control. As discussed in the sections "Setting Access: An Example" and "Setting Users and Groups," you can define an access control definition that restricts certain operations to the user who is the current owner of a file or folder, even when ownership is reassigned.

Your server administrator can do a bulk ownership assignment for you, you can assign ownership for an individual file or folder through the Web Publisher properties page, or you can become the owner of a file or folder as a result of an automatic assignment by Web Publisher when you perform certain actions.

Note Locked files have a lock owner, which is not the same as being the file's owner. All a lock owner owns is the lock placed on a file. Only they can unlock their lock, with one exception: the server administrator can unlock any file lock.

Manually Assigning Ownership

You can use the properties page that is part of the Web Publisher Services form to manually assign ownership of a file or folder. You can only modify the Owner property in two cases:

- You own the file or folder.
- The file or folder has no owner.

In the first case, if you are the owner of a file or folder, you can reassign its ownership to another user. Once you give away ownership, you no longer have any owner privileges. Only the new owner can modify the Owner field and the access control from then on.

In the second case, if there is no owner yet, you can make yourself or another user the owner. As with the previous case, if you make another user the owner, you lose your ability to modify the Owner field or the access control from then on.

Automatic Assignment

When you use certain operations on files or folders without an owner, Web Publisher automatically assigns you as the owner. If a file or folder already has an owner, Web Publisher does not reassign ownership. When you perform one of these operations on a folder, you are also assigned as owner to all its files.

Web Pub operations that assign ownership to files or folders that have no owner:

- copy (ownership is assigned to the newly copied files and folders, not the originals)
- move
- rename
- upload
- edit (although ownership has little effect until you unlock the file by publishing it)
- start version control

Setting Access: An Example

You can restrict access to the files and folder that you own. This section takes you through an example of restricting access to the owner of a file. In the example, the chosen file is the `index.html` file for the default document directory. The steps given are the same ones you would use for defining access control rules for any file or folder.

1. Select the `index.html` file in the Web Publisher applet window.
2. At this point, there are three ways to obtain the access control interface from Web Publisher:
 - From the Services menu, choose Access Control.
 - Click the Information toolbar button to display the Web Publisher Services page, and then click the Access Control button.
 - In the URL field of your browser, type in the following URL:

`http://yourServer/oneacl/index.html`

The access control window divides into two frames that you use to set the access control rules. If the file or folder has no access control, the top frame is initially empty.

3. Click New Line to get a new default rule. Leave this unchanged. The default rule that you begin with denies everyone everything. Once you've done this, you can expand the access to include specified users and groups, as in the next step.
4. Click New Line again to get another default ACL rule as the bottom row of the table. You can use the up and down arrows in the left column to move a rule, if needed.

Figure 7.2 A sample ACL for the owner of a file



5. You can allow access to this file by clicking the Deny link in the Action column. The bottom frame now displays the Allow/Deny form. See the section See “Setting Actions” for more details.
6. Click Allow and then click Update to return to the top frame with the new data.
7. You can allow access to a specific user by clicking the Anyone link in the Users/Groups column. The bottom frame now displays the User/Group form. By default, there is no authentication, meaning anyone can access the resource. See “Setting Users and Groups” for more details.
8. You can restrict access to a computer or network by clicking the Anyplace link in the From Host column. See “Specifying Host Names and IP Addresses” for more details on how to use this advanced option.
9. You can restrict access to certain operations by clicking the All link in the Rights column. The bottom frame now displays the Access Rights form. By default, the user has access to all operations. See “Setting Rights” for more details.

To restrict the rule to all except write and delete operations, uncheck these two checkboxes, and then click Update to return to the top frame with the new data.

10. Add another new line, this time allowing the owner to have write and delete access as well. Complete steps 4-6.

Then to restrict access to the owner of a file, type `owner` in the User field under “Authenticated People Only,” and then click Update to return to the top frame with the new data.

11. In most cases, this is all you need to do to define an ACL for your file, so click Submit to set up this ACL for your `index.html` file. See “Additional Options” for details about other options you can use.

If you click Revert, the server removes any changes you made to the rules from the time you first opened the two-frame window. Be cautious when using Revert because you can’t restore your edits. In most cases, it is safer to delete the rule lines individually by clicking the Trash can icon on the end of each line.

Access Control: The Details

The Web Publisher access control interface allows a wide and flexible range of access definitions. The interface has two frames, with the top part displaying the ACL rules that are being updated with new or modified data from the several different forms that are shown in the bottom part. The top frame has several icons and checkboxes that you can use to customize your access control.

Setting Actions

You can specify the action the server takes when a request matches the access-control rule.

- Allow means the users or computers can access the requested resource.
- Deny means the users or computers cannot access the resource.

Setting Users and Groups

You can restrict access to your file or folder based on the user who is making the access request. With user and group authentication, users are prompted to enter a user name and password before they can access the resource specified

in the access-control rule. The web server uses a list of users and groups to determine access rights for the user requesting a resource. This information is stored either in a database on the web server computer or in an LDAP server such as Netscape Directory Server.

You can allow or deny access to everyone in the database, or you can allow or deny specific people by using wildcard patterns or lists of users or groups. You need to use a person's user name as defined to the server, not their actual name. For example, you could restrict access to JSmith only, or to the owner of a file, or to anyone who's name begins with the letter *s* (by entering the wildcard pattern *s**).

When you click the Users/Groups link, a form appears in the bottom frame. The following list describes the options in the form:

- Anyone (No Authentication) is the default and means anyone can access the resource without having to enter a user name or password. However, the user might be denied access based on other settings, such as host name or IP address.
- Authenticated people only means all users requesting the resource have to enter a valid user name and password before gaining access to the resource.
- All in the authentication database matches any user who has an entry in the database.
- Only the following people lets you specify certain users and groups to match. You can list the users and groups of users individually by separating the entries with commas. Or, you can enter a wildcard pattern, such as **Smith*.
 - Group matches all users in the groups you specify.
 - User matches the individual users you specify. If you want to restrict access to owners, enter *owner* here.
- Prompt for authentication lets you customize the message that appears in the authentication dialog box. The default text, "Enterprise Server" is shown in figure. Depending on the operating system, the user sees about the first 40 characters of the prompt.

- Netscape Navigator and Netscape Communicator cache the user name and password. This means that while you continue to use the same browser, you do not have to reenter your user name and password.
- Authentication Methods specifies the method the server uses when getting authentication information from the client. Do not change this setting without consulting with your server administrator.
- Authentication Database lets you select a database that the server uses to authenticate users. Do not change this setting without consulting with your server administrator.

Setting Rights

You can set access rights to your Web Publisher files and directories. That is, in addition to allowing or denying all access rights, you can specify a rule that allows or denies partial access rights. For example, you can give people read-only access rights to your files, so they can browse a file but cannot edit it.

When you create an access-control rule, the default access rights are set to all access rights. To change access rights, click the Rights link in the top frame, and then check or uncheck the access rights you want to set for a particular rule. The following list describes each access right you can check:

- Read access lets a user view a file.
- Write access lets a user change a file's content or properties.
- Execute access applies to server-side applications, such as CGI programs and Java applets.
- Delete access means a user can delete, move, or rename a file or directory.
- List access means the user can get a list of the files in a folder. If this is not checked, the user cannot open the folder in the Web Publisher window.
- Info access maps to the HTTP Options method.

The Access Control Window

There are some special graphical elements in the ACL window that help you rearrange and delete individual rules. There is also a checkbox that allows you to redefine what users see when they are denied access to a resource.

Moving Rules Up and Down

Rules are applied in the order in which the server encounters them. Once you define a rule, you can use the arrows on the left of each rule to rearrange the sequence of rules for a resource. This is especially useful when you want to temporarily define an absolute rule that blocks access to later rules. By moving the rule up in the sequence, you don't need to delete the rule and recreate it later. Just place it below the absolute rule, and the server never checks it.

Deleting ACL Rules

When you uncheck the “Access control is on” option, you are prompted to confirm if you want to erase records in the ACL file. When you click OK, the server deletes the entire set of access control rules for that resource.

A less drastic way of deleting an access control rule is to click the Trash can icon at the end of each line to delete a single rule.

Response When Access is Denied

You can choose the response a user sees when denied access. You can vary the message for each file or folder. By default, the user is sent a message that says the file wasn't found (the HTTP error message 404 Not Found is also sent). In general, do not change this setting without consulting with your server administrator.

To change the message that is sent for a particular resource when access is denied:

1. In the top frame, click the link called “Response when denied.” The Access Deny Response form is displayed in the lower frame with the default option set.
2. Click the radio button labeled “Respond with the following url.”
3. In the text field, type the URL for the file (text or HTML) in your server’s document root that you want to send to users when they are denied access. Make sure the file doesn’t contain references to other files (such as style sheets) or images because they won’t be sent.
4. Click Update to return to the top form.
5. Click Submit to set this response as part of the access control rule.

Note Make sure any users who get the response file have access to that file. That is, if you have access control on the response file and the user is denied access to both the original resource and the response file, the server sends the default denied response.

Additional Options

Most users do not need the additional ACL features described in this section, but there may be cases where you need these features to provide the desired level of control for a file or folder. For example, you may need special restrictions on personnel directories in the HR group or confidential files belonging to the CEO of a company.

Using the Continue Option

By default, an access control rule has the Continue option checked. This allows lower-level files and folders to have their own ACL rules, which can contradict already defined ACL rules. For example, even though an earlier ACL rule allows anyone to read all files in a directory, you can define a rule for your files in this directory that denies access to everyone but yourself.

You could, however, set an ACL rule for a folder that prevents its files from having ACL rules that defined access in a different way. This is referred to as *absolute* control, and you set this option by unchecking the Continue checkbox. When the server evaluates the access control rules for a resource, it stops whenever it encounters a rule that does not have Continue checked.

For example, suppose someone requests the following file:

```
http://www.mozilla.com/docs/Project-X/presentation.html
```

The server checks all ACL rules that affect the object. First it checks any overall permissions for the server, then it checks the permissions for the `/docs` directory and then those for the `/Project-X` subdirectory. The server continues checking ACL rules until it reaches the ACL for the requested URL (in this case, the file `presentation.html`) or until it reaches an ACL rule that has the Continue option unchecked.

Once an absolute rule is encountered, the ACL defined as of that point is the only operative access control rule. You cannot define less restrictive rules for files or folders at lower levels of the document tree.

Specifying Host Names and IP Addresses

Although you probably won't need to do this, you can limit access to files and folders by making them available only to people using specific computers. You can use wildcard patterns to specify multiple computers or entire networks. If you want to use this feature, you must have DNS running in your network and your computer must be configured to use it.

Note It's possible for more than one person to have access to a particular computer. For this reason, Host-IP authentication is most effective when combined with User-Group authentication. If both methods of authentication are used, the end user has to enter a user name and password before getting access.

You specify this restriction by using wildcard patterns that match the computers' host names or IP addresses. For example, to allow or deny all computers in a specific domain, you would enter a wildcard pattern that matches all hosts from that domain, such as `*.netscape.com`.

To specify a host name or IP address, follow these steps:

1. Click the Anyplace link in the From Host column in the top part of the ACL form. The From Host form is displayed in the bottom frame.
2. In one of the fields under the Only From option, type a wildcard pattern or a comma-separated list of hostnames or IP addresses.
3. Click Update to return to the top part of the ACL form with the new or modified data.
4. Click Submit to modify the access control rule.

Restricting by hostname is more flexible than by IP address—if a user's IP address changes, you won't have to update this list. Restricting by IP address, however, is more reliable—if a DNS lookup fails for a connected client, hostname restriction cannot be used.

The hostname and IP addresses should be specified with a wildcard pattern or a comma-separated list. The wildcard notations you can use are specialized; you can only use the `*`.

For IP addresses, the `*` must replace an entire byte in the address. That is, `198.95.251.*` is acceptable, but `198.95.251.3*` is not. When the `*` appears in an IP address, it must be the right-most character. For example, `198.*` is acceptable, but `198.*.251.30` is not.

For hostnames, the `*` must also replace an entire component of the name. That is, `*.netscape.com` is acceptable, but `*sers.netscape.com` is not. When the `*` appears in a hostname, it must be the left-most character. For example, `*.netscape.com` is acceptable, but `users.*.com` is not.

